

65th Congress (

HOUSE OF REPRESENTATIVES

DOCUMENT No. 584

ANNUAL REPORT OF THE COMMISSIONERS OF THE DISTRICT OF COLUMBIA YEAR ENDED JUNE 30, 1917

Vol. III

REPORT OF
THE HEALTH OFFICER



DEC 22 1917
WASHINGTON.

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ANNUAL REPORT OF THE COMMISSIONERS OF THE DISTRICT OF COLUMBIA YEAR ENDED JUNE 30, 1917

Vol. III

REPORT OF THE HEALTH OFFICER





OFFICERS AND EMPLOYEES OF THE HEALTH DEPARTMENT.

JUNE 30, 1917.

Health officer.

WILLIAM C. WOODWARD, M. D.

Assistant health officer.

JOHN L. NORRIS, M. D.

Chief clerk and deputy health officer.

ARTHUR G. COLE.

Clerks.

S. Phillips. C. D. HERRMANN. E. LUCAS. J. C. MADDOX, JR. G. O. Russell. T. W. Parsons. A. C. Patterson.

L. H. CROWE.

W. M. SMITH.
M. LUCILLE GARDINER.
R. C. KILMARTIN, JR.
H. S. COPPERTHITE.

Chief sanitary inspector.

C. R. HOLMAN.

Assistant chief sanitary inspector.

J. FRANK BUTTS.

Chief food inspector.

R. R. ASHWORTH, D. V. S.

Assistant chief food inspector.

R. S. WILSON.

Bacteriologist.

J. J. KINYOUN, M. D.

Assistant barteriologists.

J. F. WALSH, M. D.

L. V. DIETER, Phar. D.

Chemist.

M. A. Pozen, Phar. D., B. S.

Assistant chemist.

Moses Starbecker.

Sanitary inspectors.

R. E. BECKHAM. C. H. BUCHANAN. W. R. SMITH. C. C. STAUB. C. H. WELCH. E. W. WHITAKER. R. RANDALL. T. B. CARROLL.

D. C. MALCOLM. B. R. MINSHALL.

Food inspectors.

J. P. TURNER, V. M. D. H. S. DRAKE, V. S. J. R. GRIME, D. V. S. JOHN ROME, D. V. S. E. R. SANDO, D. V. S.

W. B. Dodge. H. J. Mulligan. R. A. Guerrant. H. S. Lucas. W. H. Cameron. PERCY TALLEY.
A. L. MURRAY.
W. H. H. HOOVER.
H. V. NEALE.

Eight-hour female labor.

W. C. DILLER, inspector M. L. SIMPSON, inspector.

CAROLINE S. DAVIS. T. G. SCOTT.

Pound service.

G. W. RAE, poundmaster.

Laborers.

J. BURRILL. G. A. PATTERSON.

B. PRICE.
J. H. SHELTON.

Skilled laborers.

F. W. WILLNER.

H. LEVY.

Messenger and janitor.

J. H. PECK.

Driver.

ISAAC PINKNEY.

Contagious-disease service.

W. C. FOWLER, M. D., chief medical inspector.

LLEWELLYN ELIOT, M. D., medical inspector.

J. D. Bradfield, M. D., medical inspector.

E. L. LE MERLE, M. D., medical inspector.

W. J. French, M. D., medical inspector.

MARY H. CULBERTSON, inspector.

Skilled laborer.

J. J. QUICKLEY.

Laborer.

G. W. HALL.

Disinfecting service.

C. M. Beall, M. D., inspector. W. D. Tapscott, disnfector. Edw. Newman, disinfector.

Crematorium.

ERNEST BISHOP, superintendent.

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REPORT OF THE HEALTH OFFICER.

HEALTH DEPARTMENT, Washington, October 10, 1917.

GENTLEMEN: I have the honor to submit the following report for the fiscal year ended June 30, 1917:

PART I.

Public Health in the District of Columbia During the Calendar Year 1916, With a Supplementary Statement Relating to the First Six Months of the Calendar Year 1917.

Statistics of births, stillbirths, cases of reportable illness, and deaths are set forth in detail in the appendix, to which reference must be made for information not found in the body of this report

POPULATION.

No census was taken during the calendar year 1916. In this report all birth rates, stillbirth rates, morbidity rates, and death rates for the calendar year 1916 are based upon an estimated population of 359,997, the estimated white population being 260,854, and the estimated colored population 99,143.

GENERAL BIRTH RATES AND DEATH RATES.

The total number of births, stillbirths, and deaths recorded during the calendar year 1916, with corresponding birth rates, stillbirth rates, and death rates, and similar data for previous years for purposes of comparison, are stated in the following table:

Population, births, stillbirths, and deaths in the District of Columbia, with corresponding rates, during the calendar years 1901-1916, inclusive.

					Rate per 1,000.			
Calendar years.	Popula- tion.	Live births.	Still- births.	Deaths.	Births.	Still- births.	Deaths.	
01-1905 1 06-1910 1	. 311,325	5,409	570	6,042	17.38	1.83	19.4	
1	336,940 349,568	6,900 7,032	577 504	6,304 6,303	20.48 20.12	1.71	18.7 18.0	
3	. 352,936	7,007	501	6, 259	19.85	1,42	17.73 16.99	
4	353, 297 353, 664	6,903 7,130	500 447	6,006 5,866	19. 54 20. 16	1.41 1.26	16.59	
1-101: 1	. 357.749	7,067	440	6,505	19.75	1.23	18.1	
1-1915 1. 6.	353,443	7,028 7,258	478 417	6,188 6,494	19.88 20.16	1.35 1.15	17. 50 18. 0	

BIRTHS AND STILLBIRTHS.

Births.—An analysis of registered live births and stillbirths according to race appears in the following table:

Natality in the District of Columbia, by years and by race, during the calendar years 1906-1916, inclusive.

	Birth	s and stillb	irths regis	tered.	Rate per 1,000 of corresponding population.					
Calendar years.	White.	Colored.	Un- known.	Total.	White.	Colored.	Un- known.	Total.		
1906–1910 ¹	4,832 4,943	2,583 2,524	62 69	7,427 7,536	20. 1 19. 7	26. 7 25. 7		22.5		
1912	4,901	2,532	75	7,508	19.2	25.7		21.3		
1913	4,834	2,509	60 51	7,403	18.9 19.9	25. 6 24. 8		20.9		
1914 1915	5,104 5,027	2,422 2,430	50	7,507	19.9	24.6		21.		
1911–1915 1	4,962	2,483	61	7,506	19.5	25. 3		21.		
1916	5, 213	2,408	54	7,675	20.0	24.3		21.		

1 Average for 5-year period.

Live births.—There were recorded during the year 7,258 live births, equivalent to a birth rate of 20.16. Figures for comparison with previous years appear on the table printed on page 8.

Live births among the white population numbered 5,042, equivalent to a live-birth rate of 20.09, and among the colored live births numbered 2,216, live-birth rate 22.35.

Stillbirths.—The frequency of stillbirths, according to race and ac-

Stillbirths.—The frequency of stillbirths, according to race and according to the legitimacy or illegitimacy of the child, is stated in the following table:

Stillbirths in the District of Columbia, relative frequency of, with reference to race, legitimacy, and illegitimacy, during the calendar years 1906–1916, inclusive.

Registered stillbirths		irths.	R	ate pe	r 1,00	0.	Percentage of stillbirths of each class named below computed upon the basis of all live and stillbirths together for each such class.					puted e and		
Calendar year.	alendar year.								By race.				Social status.	
	White.	Colored.	Unknown.	Total.	White.	Colored.	Unknown.	Total.	White.	Colored.	Unknown.	Total.	Legitimate.	Illegitimate.
1906–1910 ¹ . 1911. 1912. 1913. 1914. 1915. 1915. 1911–1915 ¹ . 1916.	200 171 167 167 179 155 168 171	315 266 259 273 217 235 250 192	62 67 75 60 51 50 61 54	577 504 501 500 447 440 478 417	0.8 .7 .7 .7 .6 .6 .7 .7	3. 2 2. 7 2. 6 2. 8 2. 2 2. 4 2. 5 1. 9		1.7 1.4 1.4 1.3 1.2 1.3 1.2	4.1 3.5 3.4 3.5 3.5 3.1 3.4 3.3	12. 2 10. 5 10. 2 10. 9 8. 9 9. 7 10. 0 8. 0		7.7 6.7 6.7 6.8 5.8 5.9 6.4 5.4	5.6 5.0 4.9 5.1 4.6 4.5 4.8 4.1	14.9 12.8 12.2 13.3 12.1 12.5 12.6

1 Average for 5-year period.

Of white children born in institutions 4.2 per cent were born dead, while among those born in homes only 2.8 per cent were stillborn. Of colored children born in institutions 9.1 per cent were born dead,

while of those born in homes 7.3 were stillborn. Details appear in the following table:

Stillbirths in the District of Columbia, relative frequency of, in home and hospital practice, during the calendar year 1916.

		White	е.		Colore		Total per	
Place of birth.	Live births.	Sitll- births.	Per cent of still to live and still births.	Live births.	Still- births.	Per cent of still to live and still births.	Un- known race.	cent of still to live and still births.
Institutions	1, 853 3, 189	78 93	4. 2 2. 8	837 1,379	84 108	9.1 7.3	1 54	5. 6 5. 3
Total	5,042	171	3.3	2,216	192	8.0	1 54	5. 4

¹ Of unknown race, presumably born in homes.

If inquiry be limited to infants born under the care of physicians, of the infants born in hospitals 5.7 per cent were stillborn, while of those born in homes the percentage of stillborn children was 4.5. Details appear in the following table:

Stillbirths in the District of Columbia, according to professional attendance, relative frequency of, in home and hospital practice, during the calendar year 1916.

	Confined	at homes.		d at hos-	Percentage of stillbirths to live births and stillbirths.			
Attended by—	Live births.	Still- births.	Live births.	Still- births.	Homes.	Hospital.	Homes and hos- pitals.	
Physicians Midwives Unknown	4, 010 558	193 8 1 54	2,690	162	4. 5 1. 4	5. 7	5. 0	
Total	4,568	255	2,690	162	5.3	5. 7	5. 7	

¹ Of unknown race, presumably born in homes.

Megitimacy.—There was a substantial reduction in the percentage of births and stillbirths reported as illegitimate during the calendar year 1916, both among white and among colored women, as is shown in the following table:

Illegitimacy in the District of Columbia, prevalence of, by years and by race, during the calendar years 1906-1916, inclusive.

Calendar year.	Illeg stil	Illegitimate births and stillbirths registered.					1,000 co populati		Percentage of all births and stillbirths reported as illegitimate.			
	White.	Col- ored.	Un- known.	Total.	White.	Col- ored.	Un- known.	Total.	White.	Col- ored.	Un- known.	Total.
1901-19101 1911 1912 1912 1913 1914 1915 1915 1911-19151 1916	105 112 123 98 119	572 557 574 570 507 495 541 466	67 88 69 55 56 67 55	682 729 774 762 660 670 719 610	0.5 .4 .5 .4 .5	5. 9 5. 7 5. 8 5. 8 5. 2 5. 0 5. 5 4. 7		2.0 2.1 2.2 2.2 1.9 1.9 2.1	2. 3 2. 1 2. 3 2. 5 1. 9 2. 4 2. 2 1. 7	22. 1 22. 1 22. 7 22. 7 20. 9 20. 4 21. 7 19. 3		9. 2 9. 7 10. 3 10. 3 8. 7 8. 9 9. 6 7. 3

¹ Average for 5-year period.

The distribution of illegitimate births according to the ages of mothers of the children born is shown in the following table:

Illegitimacy in the District of Columbia: Ages of mothers of illegitimate children whose births and stillbirths were recorded during the calendar years 1911–1916, inclusive.

	Ages of mothers in years.												
Calendar year.	12	13	14	15	16	17	18	19	20	Total under 21.	21 and over.	Age not stated.	Total.
911 912 913 914	 1	3 1 1 1	4 7 4 8	17 19 29 15	33 52 55 53	49 77 80 67	54 90 98 106	51 76 82 62	46 57 62 49	257 379 412 361	204 225 275 215	182 170 6 29	64: 77: 69: 60:
915 916		1	7 9	18 18	51 50	80 64	84 72	66 81	60 43	367 338	233 200	14 17	61 55

Births in institutions and under the care of midwives.—The increased tendency to resort to hospitals in cases of confinement, and the decreased employment of midwives, commented on in previous reports, has continued during the calendar year 1916, as shown in the following table:

Midwives and lying-in hospitals in the District of Columbia: Live births reported by midwives and from institutions during the calendar years 1906-1916, inclusive.

	N	umber report	Percentage reported.		
Calendar year.	Total.	From institutions.	By mid- wives.	From institutions.	By mid- wives.
1906-1910 1 1911 1912 1913 1914 1914 1915-1915 1 1916-1916 1	6,900 7,032 7,007 6,903 7,130 7,067 7,028 7,258	1, 286 1, 616 1, 788 1, 936 2, 182 2, 467 1, 998 2, 690	1, 295 1, 042 953 842 699 604 828 558	18. 6 23. 0 25. 5 28. 0 30. 6 34. 9 28. 4 37. 1	18. 14. 13. 12. 9. 8. 11. 7.

¹ Average for 5-year period.

STATISTICS OF ILLNESS AND DEATHS.

General mortality.—Deaths during the calendar year 1916 numbered 6,494, as compared with 6,505 during the preceding year. The death rate fell from 18.8 to 18.04. Even the latter figure, however, does not compare favorably with death rates during preceding years, as can be seen by reference to table published on page 11. What the cause or causes were of the increased death rates during the two years just named are not known.

Mortality by race.—The usual relatively high death rate in the colored population as compared with the death rate for the white population prevailed in the calendar year 1916, as is shown in the

following table:

Racial population, deaths and death rates in the District of Columbia, by calendar years, from 1901 to 1916, inclusive.

				Death rates.		
White.	Colored.	White.	Colored.	White.	Colored.	
217,606	93,719	3,395	2,647	15.60	28. 20	
					27. 69 26. 15	
	98,676				26, 8	
255, 153	98,144	3,568	2,438	13.98	24. 8	
				13.64	24. 3	
					26.1	
					25. 6 25. 6	
	240, 244 251, 409 254, 260	240, 244 96, 696 251, 409 98, 159 254, 260 98, 676 255, 153 98, 144 256, 049 97, 615 258, 940 98, 281	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	

1 Average for 5-year period.

Mortality by age periods.—An exhaustive statement of the distribu-

tion of deaths by age periods appears in the appendix.

In the first year of life, deaths per thousand reported births numbered 106, as compared with 110 in the preceding year. The death rate of white infants remained stationary, 82 per thousand. The death rate among colored infants fell from 173 to 159. (For details, see table 12, on p. 198.)

Deaths from the more important diseases.—The following table shows the most potent causes of death during the calendar year 1916, arranged in order of the gravity of their influence on the death rate, with corresponding figures for previous years. For further details with respect to these diseases, and for information with respect to all causes of death, reference should be made to the tables printed in the appendix.

Most potent causes of deaths in the District of Columbia during the calendar years 1915 and 1916, arranged in order of relative influence on the death rate in the latter year, and the annual averages for five-year periods 1906–1910 and 1911 to 1915.

		Deaths.			Deat	h rate per	100.000).
Diseases.	Annual average 1906– 1910.	Annual average 1911– 1915.	1915	1916	Annual average 1906– 1910.	Annual average 1911– 1915.	1915	1916
Organic heart disease	Fa0	F00	701	716	169	208	204	199
fullmonary tuboroulogic	= 10	738 687	731 698	646	222	194	195	179
		547	671	604	163	155	188	168
	554	545	613	588	131	154	171	163
Apoplexy	327	413	457	463	97	117	128	129
Malignant growthe	276	339	392	387	82	96	110	108
Prematurity.	215	204	204	181	64	58	57	50
		120	154	179	25	34	43	50
Diarrhea, under 2 years	305	192	167	175	91	54	47	49
Endo and myo carditis	72	57	122	146	21	16	34	4
Senility Grippe	200	156	113	121	59	44	32	3
Grippe Marasmus, under Lyans	96	71	114	112	28	20	32	31
Marasmus, under 1 year. Bronchitis (all forms)	62	82	68	78	18	23	19	25
Bronchitis (all forms)	128	93	87	77	38	26	24	2
Nephritis, acute	59	68	77	75	18	19	22	20
Paresis_ Diabetes_	33	53	67	71	10	15	19	20
Diabetes Diarrhea, over 2 years	41	58	72	68	12	16	20	19
Uphoid forms	72	63	58	64	21	18	16	18
Typhoid fever. Whooping cough	119	59	42	46	35	17	12	13
Whooping cough.	38	29	19	41	11	8	5	11

Reportable diseases.—The prevalence of the several reportable diseases in the District of Columbia, during the calendar year 1916, and their respective influences on the death rates, with figures for comparison with the preceding year, are shown below:

Reportable diseases in the District of Columbia: Cases, case rates, death, percentage of fatalities, and death rates during the calendar years 1915 and 1916.

Diseases.	Cases.		Case per 10		Dea	ths.	Percen deaths t	Death rate per 100,000.		
	1915	1916	1915	1916	1915	1916	1915	1916	1915	191
Anterior poliomyelitis	6	39	2	11	2	6	33, 3	15. 4	0.5	1.1
Chicken pox	933 644	1,139 647	261 180	316 180	28	33	4.3	5. 1	8.1	9.
ingitis	5	6	1	2	5	4	100.0	66.6	1.7	1. 1.
Measies	1,940	2,642	542	734	16	6	0.3 72.7	0.2 56,3	4.5	2.
Scarlet fever	794	530	222	147	8	6	1.0	1.1	2. 2	1.
Smallpox	15	4	4	1	0	0				
l'uberculosis (communicable).	1,095	1,061	306	295	734	694	67.0	65.4	20, 52	19.
Typhoid fever	359	308	100	86	42	46	11.7	14.9	11.7	12
Whooping cough	674	2,224	188	618	19	41	2.8	1.8	5.3	11

Infantile paralysis.—The summer of 1916 was marked by the wide-spread prevalence of infantile paralysis, having its greatest intensity in and about New York City. The alarm naturally felt by the public under the conditions that prevailed was intensified by the general adoption of most severely drastic regulations to prevent the spread of the disease. The epidemic, however, ran its course without showing any evidence of having been modified in any way by the measures intended

to prevent its spread.

In the District of Columbia 39 cases of infantile paralysis occurred. the first case having been reported on March 6, 1916, and the last on October 5, 1916, with 6 deaths. Of the reported cases, 10 were clearly contracted outside of the District of Columbia, and in two or more cases the patients were brought into the District in the acute stage of the disease. Of the reported cases, 6 occurred in houses where there were no children other than the patient; 1 in a house where there were 5 other children; 2 where there were 4 other children; 6 where there were 3 other children; 10 where there were 2 other children; and 14 where there was but 1 other child. Only once, however, was more than one case of infantile paralysis reported in the same house, and in that instance both patients seemed to have contracted the disease before leaving their home in New Jersey. There was clearly, therefore, no tendency for the disease to spread. notwithstanding the number of foci that existed in the District at one time or another. Why the disease did not spread in the District while it did spread in other not remote places, no one can tell. new regulations were adopted and no unusual action taken to prevent the spread of the disease, except that in response to popular demand a clean-up campaign was conducted during the summer, and the board of education, contrary to the advice of the health officer. postponed the opening of the public schools for two weeks. The inefficacy, however, of clean-up campaigns as means for the prevention of the spread of the disease was abundantly demonstrated in other communities where infantile paralysis existed in epidemic form, and all recorded experience has shown that outbreaks of infantile

paralysis are not identified with school attendance.

The health officer regarded the simple and not burdensome reguations that had been in force in the District for the control of the disease for a number of years as being quite as well calculated to prevent the spread of the disease as were the rigid regulations and the drastic action of other communities. On August 26, 1916, however, the health officer did recommend to the commissioners that certain regulations be adopted, embodying the minimum requirements for the prevention of the spread of infantile paralysis, recommended by the conference of State and provincial health officers, acting in conjunction with the United States Public Health Service, with certain modifications advised by a conference of physicians practicing in the District of Columbia. This recommendation was, it was frankly stated at the time, based solely upon the high authority of the organizations named above, and was stated to be contrary to the best judgment of the health officer on the following grounds:

The proposed regulations may, in my judgment, by reason of their very rigor naterially contribute to the spread of the disease. The grave hardship and the expense that will be imposed by these regulations upon any family in which a case of acute anterior poliomyelitis occurs will cause any conscientious physician to pause leng before diagnosing any illness as poliomyelitis. The same causes will operate in the minds of parents, perhaps consciously and perhaps unconsciously, to deter them from calling in physicians in cases in which the ailment seems slight, at least in cases in which there is no paralysis, for fear the physician may diagnose the case as poliomyelitis and report it as such. And the likelihood that cases of this disease will in the absence of skilled medical attendance escape observation and become sources of infection can be understood when it is stated that one competent authority has recently said that any quarantine of acute anterior poliomyelitis based solely on the isolation of the patients showing paralytic symptoms was worthless; for probably no parent, and as a matter of fact but few physicians, are likely to recognize the disease and to assume the responsibility of reporting it as such when there are no symptoms of paralysis.

It may be argued that any decrease in the number of cases recognized and reported that may result from the promulgation of these regulations will be more than offset by the increased rigor of the quarantine imposed on such cases as are reported. The answer to this is that neither in New York City, Newark, nor Philadelphia, where rigorous regulations have been in force during the prevailing outbreaks of poliomyelitis, has there been any evidence that the disease has been diminished in frequency or in severity as the result. The outbreak in each city, so far as I can learn, has run and is running just such a course as outbreaks have run in previous years and in other places when and where no such measures for suppression were in effect.

Mor is the failure of suppressive measures to be wondered at in the light of our present knowledge. Where knowledge has run counter to expediency, knowledge seems to have suffered. Such is the case, for instance, with respect to the age limitations upon quarantine restrictions relating to persons exposed to infection. Commonly, but not always, persons over 16 years of age have been allowed much wider liberty than persons below that age. The basis for this action has been the fact that persons over 16 years of age do not so frequently show clinical symptoms of poliomyelitis as do those of the younger age group. It has been shown, however, that persons of the older age group can harbor the virus of poliomyelitis even though they themselves do not develop clinical symptoms, and under such circumstances the very fact that they do not develop clinical symptoms renders them graver sources of danger than is the younger age group. Persons in the younger age group develop clinical symptoms and are isolated; the older group is made up of persons who, even though infectious, develop no symptoms and continue about their usual duties, probably spreading infection from one to another in ever-widening circles, which only manifest themselves as occasionally some susceptible individual, adult, child, or infant, comes within the range of their influence. Only in this way can the spread of infection

be explained unless we admit the existence of some method of infection other than human contact.

It would appear to be out of this very carrier problem that the difficulty of suppressing an outbreak arises. For it seems likely that the first clinical cases observed in any community do not represent the first persons infected in that community but are themselves the results of the presence in the community of a group of carriers of unknown size. And if such be the case, even though the community be at once protected by the absolute isolation of these first clinical cases, the larger body of infection, the carriers that preceded the clinical cases, is still active and increasing in size, and it is beyond the reach of official action.

Another point at which our knowledge concerning acute anterior poliomyelitis is sacrificed to expediency is with reference to the duration of the quarantine period. The quarantine period for the patient as fixed by the regulations recommended above is but six weeks, and the longest quarantine period of which I have knowledge is but eight weeks. Yet in an investigation to determine the duration of the infectivity of nine persons who had suffered from poliomyelitis, one was found to have mouth secretions infective in the seventh month, and four to have the secretions from the month and from intestines infective in the sixth month, and four to have the secretions from the mouth or from the intestines or from both, infective in the fourth month. In other words, four out of the nine patients were infective for periods varying from three to seven months after the onset of the disease. Even the most ardent advocate of drastic regulations to prevent the spread of poliomyelitis would hardly advocate that all patients be isolated for a period as long as seven months, and yet there is no practicable way for measuring the period of infectivity in every case before the patient is released from quarantine, so as to determine whether patients released before the expiration of this period and possibly longer periods are infective.

Popular conceptions as to the communicability of acute anterior poliomyelitis, which appear to have been the basis for many of the regulations that have been promulgated, are hardly supported by established facts concerning the disease. This is shown by the relative infrequency with which one person in an infected household has contracted the disease from the infected person there, even in the absence of any precautions whatsoever. The absence of institutional and school outbreaks tends in the same direction. Healthy monkeys placed in cages occupied by animals infected by poliomyelitis do not contract the disease, nor is there any evidence that caretakers for such infected animals have ever contracted the disease or carried it home to their families. And in order artificially to inoculate the monkey with poliomyelitis procedures are necessary that are absolutely without parallel in the ordinary affairs of life.

It is best, it seems to me, that the public should not be taught to rely upon any regulations that may be promulgated by official authority. The public should understand that it is impossible to locate the sources from which poliomyelitis is spread, and that it is impossible to discover the channels through which infection is carried from any such sources, even from such as are known. The public should understand that the fight is a fight in the dark. The public should be made to understand, and each individual to feel, that the greatest safeguard against infection lies in personal cleanliness of the highest type, of person, of home, of store, of workshop, and of office. The habits of regarding every sick person as a possible source of infection is not sufficient, but the habit must be cultivated of regarding every person whatsoever as a source of infection, and of doing everything possible to avoid contact, direct or indirect, through insects or otherwise, when such contact is of such a nature as possibly to carry matter of any kind whatsoever, especially the mucous secretions, from any person, well or sick, on to the mucous membranes, or into the respiratory or digestive tracts, of the person who would defend himself against infection. Habits of this kind will do more to safeguard the individual against disease than any regulations that can possibly be put into effect by public authority.

After consultation with the corporation counsel the commissioners decided not to promulgate the regulations submitted to them by the health officer, and they were returned to the health officer by the commissioners with the suggestion that he formulate such regulations as in his judgment should be adopted. As the regulations already in force seemed to meet the situation as well as any others the health officer might devise, no new draft of regulations was submitted. All operations of the health department looking toward the prevention

of the spread of infantile paralysis were conducted, therefore, under the simple regulations that had been in force for some time. Results fully justified the judgment of the health officer with respect to the situation, and on May 3, 1917, the Conference of State and Provincial Boards of Health, composed of men who in the preceding year most actively worked for the promulgation and enforcement of regulations of the most drastic type, adopted a report of its committee on method for the control of infantile paralysis, which in every way sustained the action taken by the health officer of the District during the pre-

ceding vear

It was generally believed that the District might suffer from a severe outbreak of infantile paralysis during the summer of 1917, but up to the present writing (Oct. 12, 1917) no such outbreak has occurred. The people of the District should not, however, accept this as evidence that the community will escape unscathed, for there still remains the not remote likelihood that the disease may reappear in the summer of 1918. Unfortunately, too, sanitary authorities are at present no better able to cope with the malady than they were during the outbreak of 1916; and while treatment is more intelligent it is yet unfortunately not such as will enable the medical profession to give a hopeful prognosis with respect to the severer types of the disease, particularly in so far as relates to subsequent freedom from deformity and disability.

In connection with the efforts of the health department to do whatever might be possible to prevent the spread of infantile paralysis, Dr. Arthur L. Hunt, a medical inspector in the contagious-disease service, contracted the disease and died. It is hoped that the Government will in some substantial way recognize this sacrifice to duty

and the widow's loss.

Deaths at the District Workhouse, Occoquan, Va.—Nine deaths occurred at the District workhouse, at Occoquan, Va., during the calendar year 1916, from the following causes: Pulmonary tuberculosis, 2; acute nephritis, 2; organic heart disease, 5. The average daily population in this institution was 644. The death rate per 1,000 population was, therefore, 13.98.

VITAL STATISTICS, JANUARY TO JUNE, INCLUSIVE, 1917.

A statement showing cases of reportable illness and reported deaths during the first half of the calendar year 1917 appears on page 88.

DISPOSAL OF THE DEAD.

The ultimate disposition of the dead in the District of Columbia during the calendar year 1916 is shown in the following table:

Disposal of dead bodies, exclusive of bodies of stillborn infants, coming under the supervision of the health department during the calendar year 1916.

Method of disposal.	Died in District of Columbia.	Died out- side of District of Columbia and brought in for disposal.	Total.
Sent out of District of Columbia for disposal: To Arlington National Cemetery To other places	355 1,342	29 48	384 1,390
Total	1,697	77	1.774
Cremated: Lee's crematory. District crematory.	39 259	14 13	53 272
Total	298	27	325
Buried in District of Columbia. Anatomical board		517	4, 919 97
Total	4,499	517	5,016
Total disposed of	6,494	621	7,115

Cremation.—The following table shows the progress of cremations in the District of Columbia since the calender year 1900:

Progress of cremation in District of Columbia, calendar years 1901-1916, inclusive.

			Bodies cr	emated.1	
Calender year.	Total. deaths.	Lee's crematory.	District of Co- lumbia crema- tory.	Total.	Percentage of cremations.
901 902 903 903 904 905 906 909 909 910 911 911 912 913 914	6,050 5,788 5,944 6,221 6,205 6,316 6,343 6,136 6,216 6,511 6,503 6,259 6,006 5,866 6,505 6,494	27 21 41 20 43 41 50 54 52 52 52 57 59 67	2 45 316 334 319 323 295 230 298 277	27 21 41 20 43 41 50 99 366 382 371 375 352 289 365 365	0.44 .66 .37 .66 .5.8 5.8 5.8 5.9 5.9 4.9 5.6 5.0
Total.	99, 163	735	2, 432	3,167	

¹ Stillbirths excluded.

² Began to operate October, 1908.

COMMUNICABLE DISEASES OF ANIMALS.

Rabias.—The extent to which rabies prevailed in the District of columbia during the calendar year 1916 is shown in the following table, with corresponding figures for the preceding year:

Rabies in the District of Columbia during the calendar year 1916, and corresponding data for the preceding year.

	Calenda	ır year.
	1915	1916
Dogs reported to the health department as rabid or suspected of being rabid	19 5	21
Bureau of Animal Industry (3 dogs)	9	3
Pareons bitton by dogs rabid or suspected of being rabid	17	14
Demestic animals bitten by dogs, rabid or suspected of being rabid. Persons bitten by dogs and cats and other animals known to be rabid, as shown by post-	5	
morrem findings of the Bureau of Animal Industry (2 dogs). Pasteur treatment administered to individuals during the calendar year (reports received	9	2
from the Hygienic Laboratory, Public Health Service)	1 22	1 35

This includes individuals from outside of the District of Columbia as follows: 1915, 13; 1916, 28.

In view of the prevalence of rabies in the District of Columbia the commissioners on July 19, 1916, issued a proclamation requiring the muzzling of all dogs running at large. This proclamation became effective on July 10, 1916, and continued for a period of one year.

PART II.

Administration.

SUPERVISION.

There has been no change in the organization and general methods of procedure in the health department during the past year. On April 9, 1917, Harry C. McLean, who had served as chief clerk and deputy health officer since October 1, 1894, was given indefinite leave of absence on account of illness, and Arthur G. Cole, who had been connected with the department since July 21, 1906, was appointed to succeed him. Mr. McLean died on June 2, 1917, after 23 years of faithful service.

BUREAU OF PREVENTABLE DISEASES.

Contagious-disease service.—The following table shows in a general way the amount and character of the work within the purview of the contagious-disease service during the fiscal year 1917.

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Reportable diseases in the District of Columbia: Cases reported during the fiscal years 1916 and 1917.

	Fiscal year 1916.	Fiscal year 1917.
Anterior poliomyelitis	7	2
Anterior poliomyelitis	1.044	96
Jiphtheria	861	61
Epidemic cerebrospinal meningitis	7	2
eprosy		_
deasles	2,450	3,53
Pellagra		1
carlet fever	478	49
Smallpox	8	
Tuberculosis	1,045	98
Typhoid fever	362	29
Whooping cough	1,131	2,12
Total	7,412	9,08

Smallpox hospital and quarantine station.—The smallpox hospital cared for 6 patients during the fiscal year 1917. It was in active service on 58 days, the total number of patient-days' service rendered being 73. The average number of patients in the hospital each day during the period when the hospital was in active operation was 1.2, and the average for the entire year was 0.2. The average stay of each patient in the hospital was 12.2 days.

The quarantine station cared for six persons during the year. It was in active service 31 days, the total number of inmate-days being 40. During the time when the quarantine station was in active operation, the average number of inmates per day was 1.5. average number of inmates per day calculated on the entire year was 0.2. The average stay of an inmate in the institution was 6.7

days.

During the year the old wooden porches at the smallpox hospital were replaced by cement porches, and an incinerator was installed at the hospital for the destruction of the refuse from that institution

and from the quarantine station.

Ambulance service.—The ambulance for patients suffering from minor contagious diseases transported during the year 464 patients, on 238 days. Patients suffering from smallpox were removed in the ambulance provided for that purpose or in some other vehicle, not in the ambulance for the transportation of patients suffering from minor communicable diseases.

Organization.—The organization and administration of the con-

tagious-disease service has remained as heretofore reported.

Cost of the contagious-disease service.—A statement of the cost of the contagious-disease service appears on pages 69, 74. The specific appropriation made by Congress for personal services in connection with this work proved inadequate last year, as in previous years, and it became necessary to draw on the emergency fund to protect the District from communicable diseases.

Isolating wards at Garfield Memorial and Providence Hospitals.— The following statement shows the service rendered by the isolating wards at Garfield Memorial and Providence Hospitals during the

fiscal year 1917.

Isolating wards, Garfield Memorial and Providence Hospitals: Service and expense during fiscal year 1917.

Name of institution.	Pay- patient days.	Free- patient days.	Total patient days.	Total appropri- ated by Govern- ment.	Paid by District for year.	Cost to District per free- patient per day.	Amount received from pay patients.
Garfield Memorial Hospital	2, 464 1, 142	6, 208 2, 984	8,672 4,126	\$7,000.00 5,000.00	\$7,000.00 5,000.00	\$1.13 1.68	\$4,039.40

[:] No account of money received from pay patients was rendered by Providence Hospital.

A statement showing the nature of the cases treated in the wards

named above appears on page 40.

In determining the cost to the Government of the isolating wards at Garfield Memorial Hospital during the fiscal year 1917 and during previous fiscal years, allowance must be made for the fact that by the deficiency act of April 17, 1917, \$15,000 was appropriated to reimburse the hospital for money expended by it for the maintenance of free patients over and above the number paid for through appropriations. Much needed improvements at the isolating wards of Garfield Memorial Hospital were made during the year by means of the money appropriated for that purpose in the sundry civil bill approved July 1, 1916, \$5,000, and this, too, must be taken into consideration in determining the cost of these wards to the Government.

Disinfecting service.—During the fiscal year 1917, 1,794 premises were disinfected, and 1,486 articles exposed to infection on such premises or in some other way were disinfected at the disinfecting station. The general tendency of the department has been to diminish the amount of disinfection done after communicable diseases, and up to the present time no discoverable harm has resulted.

The disinfecting service cost during the year \$5,421.51.

Statements showing in somewhat more detail the nature of the work done by the disinfecting service and the cost of the service ap-

pear on pages 74, 75, respectively.

Under the provisions of the regulations for the control of disinfecting and fumigating, promulgated by the commissioners under date of April 2, 1915, five permits have been issued during the fiscal year 1917 for the fumigation of premises by the use of cyanide gas. The use of cyanide gas as authorized by these permits was for the destruction of moths and bedbugs; it had no relation to the prevention of communicable diseases. No additional persons were registered during the year as engaged commercially in the business of fumigating and disinfecting, the number of persons now on the register being two.

Public crematorium.—During the fiscal year 1917, 550 bodies were cremated—112 adults, 181 infants, and 257 stillborn babies. The total cost of maintenance was \$1,630.89. In 38 cases bodies were cremated for persons able to pay for such service, and fees amounting to \$975 were collected. The net cost to the Government of maintaining the crematory during the year was therefore \$655.89.

During the year concrete bases were placed under the pillars in the

front of the crematorium and cement porches were built.

The progress of cremation in the District of Columbia since 1900, as a substitute for earth burial, is shown in a table appearing on page 16

of this report.

Bacteriological laboratory.—Specimens sent into the bacteriological laboratory for diagnosis during the fiscal year 1917 numbered 14,885. A statement of the character of these specimens and of the results of the examination appears on page 57 of this report, in the report of the bacteriologist.

The cost of maintaining the bacteriological laboratory during the

vear was \$6.105.37.

One of the most important undertakings of the bacteriological laboratory during the year was an examination into the efficiency of so-called bubble fountains as a means for preventing the spread of communicable diseases. None of the fountains examined could be classed as sanitary, and some of them were surprisingly bad. The findings of the laboratory in this respect were confirmatory of the findings of Dorothy F. Pettibone, Franklin B. Bogart, and Paul F. Clark, of the University of Wisconsin, as the result of certain investigations undertaken by them but unknown to this department when its investigation was made. These findings have been confirmed since by H. A. Whitaker, of the University of Minnesota.² It may be stated generally, therefore, that the bubble fountains now on the market constitute but a slight improvement, if any, over the common drinking cup.

The provision made by Congress for the appointment of a serologist and the establishment and maintenance of a serological laboratory, by the appropriation act of March 3, 1917, will materially add to the efficiency of the health department. It is to be regretted that the authority granted by Congress by that act for the use of the building formerly occupied by the Central Dispensary and Emergency Hospital became unavailable, the building being required by the Federal Government for emergency use in connection with service

arising out of the war.

MEDICAL INSPECTION OF PUBLIC SCHOOLS.

The District appropriation act of September 1, 1916, authorized the appointment of a chief medical and sanitary inspector, who should. under the direction of the health officer, give his whole time to and exercise direction and control of the medical inspection and sanitary conditions of the public schools of the District of Columbia. On October 19, 1916, Dr. Joseph A. Murphy was appointed to fill this position. While considerable work was done, the service may be said to have been still in a developmental state at the close of the school year. A report cover ng the operations of this service will be printed, it is understood, at a more less length, in the report of the board of education.

¹ The Bacteriology of the Bubble Fountain, by Dorothy F. Pettibone, Franklin B. Bogart and Paul F. Clark, Laboratory of Medical Bacteriology, The University of Wisconsin, presented at the Seventeenth Annual Meeting of the Society of American Bacteriologists, Urbana, Ill., Dec. 29, 1915, and published in The Journal of Bacteriology, Vol. 1, No. 5, September, 1916.

2 Drinking Fountains, Investigation of Fountains at the University of Minnesota, by H. A. Whitaker, Director, Division of Sanitation, Minnesota State Board of Health, published in the Public Health Reports, United States Public Health Service, May 11, 1917.

Possibly the most important action taken with respect to the health of the children of the public schools of the District during the year, which tended also to protect the health of children attending private schools, was the promulgation by the commissioners on September 8, 1916, of an amendment to the regulations to prevent the spread of tuberculosis in the District of Columbia, providing for the exclusion from school of all teachers, pupils, janitors, and helpers suffering from laryngeal or pulmonary tuberculosis or from tuberculosis in any other communicable form. This regulation is printed at length

on page --

The immediate cause of the promulgation of the regulation excluding tuberculous persons from schools was the known existence in the District of 98 persons of school age who were registered as suffering from tuberculosis in communicable forms. Promptly after the promulgation of the regulation excluding such pupils from school, reports of recoveries of such patients began to be received. The considerable number of such reports received, coupled with the fact that in some cases even the registration of the pupil as a tuberculous patient had apparently been forgotten by the family and by the attending physician prior to the promulgation of the regulations, suggests very strongly that a part of these supposed recoveries represented simply correction of erroneous diagnoses in the first place. Other cases may have represented, of course, true recoveries. Details concerning these pupils appear in the following statement:

	White.	Colored.	Total.
Pupils registered as having pulmonary or other communicable forms of tuber- culosis.	32	66	98
Recoveries reported of pupils excluded in the group described in the preced- ing figures. Percentage of recoveries reported.	19 59.3	16 23. 6	35 35. 7

As a result of the promulgation of the regulations referred to above, a school for white pupils suffering from tuberculosis was opened at the Hamilton School, Bladensburg Road, and a school for colored pupils was opened at the Harrison School, Thirteenth Street, between V and W Streets. It is hoped that ultimately proper school accommodations for such pupils will be provided, to replace the accommodations that must now be employed, however creditable such accommodations may be to the ability of those having the matter in charge to improvise.

BUREAU OF FOOD INSPECTION.

The organization and general method of procedure of the foodhispect on service underwent no change during the fiscal year 1916. On October 16, 1916, Reid R. Ashworth, D. V. S., who had been commeted with the food-inspection service since July 26, 1902, was appointed chief food inspector. Mr. R. S. Wilson, who had been strying as chief food inspector, remained in the service as assistant chief food inspector.

Inspection of perishable foodstuffs.—The number and kinds of food producing and vending establishments in the District of Columbia, exclusive of dairy farms and dairies, during the fiscal year 1917,

is shown in the following table, with corresponding data for the preceding year:

Food producing and vending establishments in the District of Columbia, number and kind on register during fiscal years 1916 and 1917, with data relative thereto.

	Registered at beginning of year.	Registered during year.	Abandoned or duplicated.	at close	Total.	Average per annum per place.	Inspections per inspector per day worked.
Total:							
1916 1917 Commission houses:	5, 470 5, 832	745 754	383 2, 993	5, 832 1 3, 593	44, 478 42, 356	7.62 11.79	33.57 24.81
1916 1917	72 73	3 8	2	73 81	16, 110 12, 122	220. 68 149. 65	12.16 7.10
Groceries: 1916	2, 557 2, 747	490 508	300 1,447	2,747 11,808	12, 949 10, 313	4.71 5.70	9.77 6.04
Markets: 1916 1917	10 10			10 10	2, 645 2, 591	264.50 259.10	2, 00 1, 52
Hucksters: 1916	679 682	3	. 175	682 1 507	6, 963 6, 089	10. 21 12. 01	5. 25
Bakeries: 1916.	91	12	6	97	117	1.21	. 09
1917 Confectioneries:	97	. 2	31	1 68	178	2, 62	.16
1916 1917 Restaurants and lunch	458 566	135 106	27 171	566 1 501	804 680	1.42 1.36	1.3
rooms: 1916	811 864	86 102	33 453	864 1 513	3, 951 4, 111	4. 57 8. 01	2. 9 ² 2. 4 ²
Miscellaneous: 1916 1917.	792 793	16 28	15 716	793 1 105	939 866	1. 18 8. 25	.7

The apparent decrease in the number of such establishments in the District at the close of the year is the result merely of the cancellation on the records of the health department of establishments which by better methods of administration adopted during the year, were found to have distributional to the stablishments although still carried on the books of the department. As these establishments were stricken from the registers of the department from time to time during the year, the figures purporting to show the average number of inspections per annum for each such establishment and to show the inspections per inspector per day worked at each of the places named must be accepted as an index of the work done rather that as an accurate statement of it.

One hundred and twenty-one prosecutions were instituted during the fiscal year against the proprietors or managers of grocery stores lunch rooms, and similar establishments, for unclean conditions of premises, sales of unwholesome food, or other violations of regulations, and a considerable number were pending when the year began. One hundred and seventeen such cases were disposed of during this period, as follows: Nolle prosequi was entered in 3 cases, 5 were dismissed, personal bonds were accepted in 10 cases, fines aggregating \$216 were imposed in 32 cases, and forfeitures amounting to \$368 were accepted in 67 cases. One hundred and ten cases were still pending at the close of the year.

A statement of the amount and kind of foodstuffs condemned during

the year appears on pages 64-66, of this report.

The cost of the inspection along the lines suggested by the preceding table and paragraphs was approximately \$7,760.23. Details of this cost appear in the table printed on pages 69, 73.

Inspection of slaughterhouses.—Six of the small slaughterhouses heretofore under inspection by the health department discontinued business during the year, the proprietors now doing such slaughtering

as their respective businesses require in some of the larger establishments, where better facilities are provided. There remained at the end of the year 15 slaughterhouses engaged essentially in local trade, and therefore under inspection by the health department only. The larger establishments, engaged in interstate business, are of course subject to inspection both by the Bureau of Animal Industry United States Department of Agriculture, and by the health department of the District, but in practice inspection at such establishments is left substantially to the Federal bureau.

At the establishments under inspection by the health department there were examined during the year, at time of slaughter, 80 cattle, 357 sheep, 610 calves, none of which were found condemnable.

Supervision of dairy farms.—A statement showing in detail the amount and kind of work done by the department during the fiscal year 1917, with respect to dairy farms on which milk and cream were lawfully produced for sale in the District of Columbia, appears in the following table. Considerable quantities of milk and cream were brought into the District during the year from unlicensed farms, but by legal technicalities the health department was prevented from interfering with its importation.

Dairy farms on which milk and cream were lawfully produced for sale in the District of Colombia during the fiscal year 1917, number and distribution of, with certain data pertaining thereto, and corresponding figures for the preceding year.

Dair	y farms	registere	d.			Cattle.		7	ubercul	in teste	d.
	During Begin-		g year.	Close	Begin-	During	Close			De	Suspi-
	ning of year.	Regis- tered.	Can- celed.	of year.	ning of year.	year.	of year.	Total.	Passed.	acted.	cious.
Total;											
1916 1917	$1,161 \\ 1,236$	395 184	320 281	1,236 1,139	18,400 21,044		21,044 22,135	15, 199 11, 347	14,583 10,922	533 367	83 58
District of Colum- bia;											
1916 1917 Maryland:	33 31	7 6	9 12	31 25	508 611	103 194	611 417	1, 184 44	1,171 44	11 0	0
1916. 1917. Virginia:	721 747	198 95	172 168	747 674	8,748 10,592	1,844 760	10,592 9,832	5,747 3,958	5,486 3,767	249 173	12 18
1916. 1917. Pennsylvania:	380 427	137 80	90 74	427 433	8,065 9,096	1,031 2,584	9,096 11,680	7,855 7,288	7,526 7,054	262 194	67 40
1916. 1917. New York:	$^{6}_{25}$	42 1	23 25	25 1	240 519	279 519	519	313	307	6	
1916	16		16		690	690					
Ohio: 1916. 1917. West Virginia:		8	8								
1916. 1917.	5 6	3 2	2 2	6 6	149 226	77 20	226 206	100 57	93 57	5	2

Dairy farms on which milk and cream were lawfully produced for sale in the District of Columbia during the fiscal year 1917, number and distribution of, with certain data pertaining thereto, and corresponding figures for the preceding year.

INSPECTIONS.1

	Inspections of farms.	Average frequency of inspec- tions of each farm during year.	Average number of farms inspected per inspec- tor per day worked.	Inspections of cattle.	Average frequency of inspec- tion of each animal.
Total:					0.44
1916	4,183	3.38	2. 55	66, 135	3.14
1917 District of Columbia:	4,423	3. 77	2.87	67,810	5.00
1916	368	11, 15	. 22	3,741	6, 12
1917	406	16, 24	. 26	3,949	9.47
Maryland:	100	10121			1
1916	2,296	3. 07	1.40	35,785	3. 3
1917	2,372	3.36	1.53	32, 176	3. 2
Virginia:				04.045	2.7
1916		3. 31	.86	24,947	2.6
1917 Pennsylvania:	1,584	3.56	1.02	30,504	2.0
1916.	50	2,00	.003	694	1.3
1917	37	1.42	.024	478	.9
Ohio:					1
1916	33	1.32	.002	290	1.0
1917					
West Virginia:				0.00	2.0
1916	20	3.33	. 001	678	3. (
1917	24	4.00	.015	703	9.4

¹ The apparent decrease in the number of dairy farms registered at the close of the year, as compared with the number registered at the beginning, is the result merely of the cancellation on the records of the health department of farms which had discontinued business at longer or shorter periods prior to the dates of cancellation. It does not represent an actual increase in the number of dairy farms shipping milk into the District of Columbia during the year.

Supervision of dairies and milk shops.—The following table shows the number and the distribution of the dairies and milk shops lawfully supplying milk in and for the District of Columbia during the fiscal year 1917, and the frequency of inspections:

Dairies in and for the District of Columbia during the fiscal year 1917, number and distribution of, with certain data pertaining thereto, and corresponding figures for the previous year.

	Licensed at begin- ning of the year.	Applica- tions received.	Permits issued.	Permits surren- dered.	Applications rejected or with- drawn,	Licensed at close of year.	Inspec- tions during year.	Average number of in- spec- tions of each dairy during year.	Average number of dairies inspected per in- spector per day worked.1
Total: 1916 1917	62 49	4 3	4 3	16 9	1	49 43	512 730	15. 51 16. 98	1. ×2 2. 64
District of Co- lumbia: 1916 1917	60 48	4 3	4 3	15	1	48 42	508 725	15. 87 17. 26	1. 83 2. 69
Maryland: 1916 1917 Virginia:	1			1			1	1.00	
1916 1917	1 1					1	3 5	3. 00 5. 00	

¹ The inspector assigned to this work has other duties to perform also.

The cost of this service can not be segregated from the cost of other branches of the food-inspection service with sufficient accuracy to

justify any comments thereon.

Chemical and bacteriological control of the milk supply.—During the fiscal year 1917 there were collected 8,315 samples of milk and 348 samples of cream for chemical analysis in the ordinary course of the milk-control service of the health department. Details as to the results appear in the following table and in the report of the chemist, printed in the appendix.

Milk and cream in the District of Columbia: Chemical examinations during the fiscal year 1917, with corresponding figures for previous years.

	Milk (8,315	samples) ir taining—	1917 con-	n- Cream (348 sample 1917 containing-			
Fiscal year.	Less than 3.5 per cent fat.	3 per cent fat and less.	Added water.	Less than 20 per cent fat.	18 per cent fat and less.		
0[2. 0[3. 9]4. 0[5. 0[6.	Per cent.1 3. 44 4. 89 4. 69 7. 71 8. 52 10. 63	Per cent. ¹ 1. 19 . 45 . 44 3. 03 . 83 . 69	Per cent. ¹ 1.20 .63 .97 .76 1.22 1.50	Per cent. ¹ 70.07 64.92 48.27 57.73 61.39 64.09	Per cent. ¹ 20. 92 12. 54 17. 91 17. 16 22. 47 28. 44		

¹ Per cent on basis of all samples of milk or of cream, respectively, examined.

The increase in the amount of low-grade milk and cream coming into the District, and in the frequency with which milk is watered, are probably due to the high cost of producing milk and to the high price for which it was sold during the year. The greater the price of milk, the greater is the temptation to water and to skim it, since the returns thus obtained for every gallon of water added to the milk or cream abstracted are greater. Another factor in leading to a deterioration in the milk supply of the District is probably the difficulty that has been experienced by the health department in enforcing the laws and regulations relating to milk. Action under the Federal Food and Drugs Act of June 30, 1906, has been very seriously interfered with by reason of the pendency in the Supreme Court of the United States of a case involving the interpretation of that law in so far as relates to the District of Columbia, and action under the law passed in 1895 to regulate the milk supply of the District of Columbia has been practically prevented by reason of a case pending in the court of appeals of the District of Columbia. The result has been that much milk and cream has been brought into the District of Columbia from unknown sources, and with a history that the vendors of such milk and cream prefer to conceal rather than to disclose. An effort to meet this situation through the modification of a system in force for the grading of milk was made, but with only partial success.

Bacteriological examinations were made of 1,538 samples of milk and cream during the fiscal year 1917, with the results shown in the

table following.

Milk and cream in the District of Columbia: Bacteriological examinations of 1,538 samples during the fiscal year 1917.

NUMBER OF SPECIMENS.

	Ва	cteria per	Colon group.			
	Under 10,000.	10,000 to 100,000.	100,000 to 1,000,000.	1,000,000 and over.	Present.	Absent.
1. Raw milk: A. From containers arriving by trolley or train B. From containers as distrib-			. 2	7	8	
uted to consumers. 2. Heated milk sold as pasteurized: A. From containers arriving by trolley or train.	71	342	284	140	293	54
B. From containers as distrib- uted to consumers.	225	270	116	81	179	51

PERCENTAGE OF SPECIMENS.

Raw milk: A. From containers arriving by trolley or train B. From containers as distributed to consumers. Heated milk sold as pasteurized: A. From containers arriving by trolley car or train.	8,48	40. 86	22. 22	77. 78 16. 73	88. 89 35	11. 11 65
B. From containers as distrib- uted to consumers	32, 51	39. 02	16. 77	11.70	25. 87	74. 13

Grading of milk.—In order that the milk grades published by the health department might give proper weight to the practice adopted by some milk dealers of bringing milk into the District from unlicensed and therefore unscored farms, the modification described below of the method of grading previously adopted was made.

On every day on which any distributor of milk has, to the knowledge of the health department, received milk from any farm the proprietor of which has not been authorized to ship milk into the District of Columbia for sale, either by a formal permit issued to him for that purpose or by reason of having filed an application for such a permit, an entry of zero will be made upon the record of such distributor, both under the heading "dairy farm score" and the heading "score of cattle." The number of cows on the farm or farms from which such milk comes will be determined upon the hypothesis that each such cow engaged yields, in the case of milk, 2 gallons, and in the case of cream, four-tenths of a gallon; and the number of cows thus determined will be entered on the dealer's record and used in computing the grade of his milk.

This amendment to the method of grading will become effective on and after April 16, 1917.

At the close of the period covered by this report too a short a time has elapsed to permit judgment to be passed on the result.

Chemical control of foods other than milk and cream.—Of foods other than milk and cream 311 samples were examined chemically during the fiscal year 1917. Of these 57 were found adulterated or misbranded. A detailed statement concerning this work appears in the report of the chemist, on pages 49, 50 of this report.

Chemical control of drugs.—One hundred and eighty-seven samples of drugs were examined during the year, including tincture of iodine, chloroform liniment, solution of magnesium citrate, mercurial ointment, zinc ointment, elixir of iron, quinine, and strychnine. The results of these analyses are stated in the report of the chemist on pages 50, 51.

BACTERIOLOGICAL LABORATORY.

The work of this laboratory has been discussed in connection with the work of the bureau of preventable diseases and the bureau of food inspection. See pages 20-26.

CHEMICAL LABORATORY.

Much of the work of the chemical laboratory has been discussed in connection with the chemical control of the milk supply and of foods other than milk and of drugs. The details of such work appear in the report of the chemist on pages 47–53 of this report. So also does a discussion of the work done for the police department, the coroner, and the purchasing officer.

BUREAU OF SANITARY INSPECTION.

There was no change in the organization and administration of

the bureau of sanitary inspection during the year.

tineral nuisance inspection.—Complaints acted on during the year numbered 8,852. Such action required 12,161 inspections and 16,385 reinspections. Inspections not based on complaints numbered 11.639. Official calls, other than for purposes of inspection and for purpose of the service of notices for inspectors in other districts, numbered 2,466. The total number of official visits made by the sanitary inspection force during the year was therefore approximately 42.651. Violations of laws and regulations for the prevention and abattement of nuisances were reported in 11,885 instances, and compliance was procured in 11,366 of such instances prior to close of the the fiscal year. The remaining cases, 519, were pending at the close of the year.

Informations were filed in the police court in 233 instances, charging violations of the sanitary laws and regulations. Fines were imposed in 6 cases, collateral was forfeited in 1 case, personal bonds were taken in 33 cases, and a plea of nolle prosequi was entered in 146 cases, leaving 47 cases pending at the close of the year. Fines and

collaterals collected amounted to \$64.

Under the assessment system, 217 notices were served to procure the abatement of nuisances on property belonging to nonresident owners. Such nuisances were abated by the owners in all but 19 cases, and in these 19 cases the District government caused the necessary work to be done and the cost, \$125.30, to be assessed against

the property.

Sanitary inspection of places of employment.—The inspection of printing offices reported in the preceding annual report of this department was continued during the year, and the systematic inspection of bakeries and the kitchens of lunch rooms, restaurants, and other similar places, in the interest of the health of the persons employed therein, was begun. In the inspection of these establishments there has been a very general spirit of cooperation with the department on the part of the owners and proprietors.

Registration of stables, barber shops, laundries, privies, fowl and pigeon houses, and sewage disposal systems.—The following table shows the number of stables, barber shops, laundries, privies, fowl and pigeon houses, and sewage-disposal systems registered and under

observation by the health department during the fiscal year 1917, the frequency with which such places have been inspected, and, in a general way, the results.

Stables, barber shops, laundries, privies, fowl and pigeon houses, and sewage-disposal systems registered during the fiscal year 1917.

	Stables.	Barber shops.	Laun- dries.	Privies.	Fowl and pigeon houses.	Sewage dis- posals.
Registered at beginning of year Registered during the year Abandoned during the year On the register at the close of year. Number of inspections during the year Average frequency of inspection. Number of nuisances found	58 859 1,385 1,243 0,8	852 67 235 684 1,085 1.5	3,817 205 1,504 2,518 1,460 0.5 (1)	2,678 194 127 2,733 1,177 0.4 346	1,377 114 3 1,488 (1) (1) (1) 342	126 8 19 11.5 174 1.5

1 Data not available.

Smoke inspection.—The following table shows the work done in the smoke-inspection service during the fiscal year 1917, with corresponding figures for the preceding year:

Smoke inspections during the fiscal years 1916 and 1917.

	1916	1917
Observations	8,173	8, 53
Violations of law reported. lases referred to corporation counsel. lases of fines and forfetures.	1,286	1,46
'ases referred to corporation counsel.	42	3
Cases of fines and forfeitures.	21	. 2
ases of personal bonds taken	12	
lases nolle prossed	5	
Pases aequitted	0	
Pases aequitted Pases pending	6	
Amounts of fines and forfeitures	\$260	825

Enforcement of the weed law.—The practice heretofore adopted of devoting to the enforcement of the weed law such time and attention as can be spared from other more important duties devolving on the sanitary inspection service has been continued during the year. The efficient enforcement of this law would require a substantial increase in the corps of inspectors in the sanitary service during the summer months, and even then a substantial enforcement of the law will be difficult so long as it continues in its present drastic form.

Private hospitals and asylums.—During the year 1917, in view of the death of the proprietor, the license for one hospital for animals was transferred. One license to maintain a hospital for animals was issued. One license to maintain a hospital for animals and two licenses for hospitals for human beings were cancelled.

Special duties of the sanitary inspection force.—The efficiency of the sanitary inspection service as such has been diminished by the time it has been called upon to devote to work properly belonging to the contagious disease service. This has been found necessary because of the limitation imposed by law upon the amount that can be expended annually for personal services for the enforcement of the various

laws relating to contagious diseases. The sanitary inspection service has been required, too, to assist in the enforcement of the law relating to the registration of births, but the work done in this connection consumed relatively little time— $7\frac{3}{4}$ working days during the year.

Cost of bureau of sanitary inspection.—The approximate cost of the sanitary inspection service, exclusive of the smoke inspection service, was \$15,306.54. The approximate cost of the smoke inspection service was \$1,253.37. Details are printed on pages 69, 72.

EIGHT-HOUR LAW FOR FEMALES.

Establishments coming within the purview of the eight-hour law for women during the year numbered 1,735, and in the execution of the law 11,140 inspections of such establishments were made. Complaints were received in 109 cases, and inspections based on such complaints numbered 112.

Nine violations of the eight-hour law for women were referred to the corporation counsel for prosecution, and 6 such cases were pending at the beginning of the year. Fines were imposed in 9 cases, amounting to \$160: in 1 case personal bonds were taken; in 3 cases a plea of nolle prosequi was entered; 1 case was dismissed; and 1 case was pending at the close of the year.

The cost of enforcing the eight-hour law for women during the year amounted to \$4,574.67, exclusive of the undistributed cost of supervision.

THE POUND SERVICE.

The total number of animals that passed through the pound during the fiscal year 1917 was 7,013, of which 3,029 were dogs, 3,984 were cats, 3 horses, and 1 cow.

Of the dogs, 1,658 were captured while running at large in violation of law, and the remainder were surrendered for destruction or quarantine by their owners or by persons having custody of them. Of the dogs captured while unlawfully running at large, 130 were tagged but not muzzled, 8 muzzled but not tagged, and 1,520 neither tagged nor muzzled. Impounded dogs were disposed of as follows: Killed, 2,464; redeemed, 339; sold, 220; returned after quarantine, 11; escaped, 1.

There was collected through the activities of the pound service, during the fiscal year 1917, \$941, as follows: Fees, \$688; sales, \$251.50; reimbursement for food, \$1.50. The total cost of maintaining and operating the pound service during the fiscal year 1917 was \$5.379.38; the net cost of the service was therefore \$4,438.38.

Further details as to the work of the pound service appear in the

tables on page 66.

By reason of the continued prevalence of rabies in the District of Columbia, the commissioners on July 19, 1916, again issued a proclamation requiring the muzzling of all dogs running at large, this requirement to be effective until July 10, 1917.

¹ Includes one-fifth time of chief clerk, who has supervision of this service.

BUREAU OF ADMINISTRATION.

No change was made in the organization or methods of administration of the bureau of administration during the year. On April 9, 1917, Harry C. McLean, who had been chief clerk and deputy health officer since October 1, 1894, was granted indefinite leave of absence because of illness, and Arthur G. Cole, who had been in the employ of the department since July 2, 1906, was promoted to fill the office. Correspondence and files.—The health department received 10,664

Correspondence and files.—The health department received 10,064 letters and 4,147 oral complaints during the fiscal year 1917. Letters sent out by the department numbered 10,601. Special reports filed

by employees numbered 1,414.

The cost of the bureau of administration during the year was approximately \$10,924.68.

BUREAU OF VITAL STATISTICS.

There has been no change in the organization or method of administration of the work of the bureau of vital statistics during the year. Registration of births, stillbirths, and deaths.—Deaths in the District of Columbia recorded by the bureau of vital statistics during the year.

numbered 6,613. Deaths occurring outside of the District but recorded in the District by reason of the burial of the remains in the District numbered 618. Birth certificates recorded numbered 7,231,

and stillbirth certificates 432.

Transcripts from records.—The following table shows the number of transcripts issued from the records of births, stillbirths, deaths, and marriages during the fiscal year 1917. The fees collected for such transcripts amounted to \$560.50, while 205 such transcripts were issued free to various bureaus and offices of the Government.

Transcripts from records issued during the fiscal year 1917.

To whom issued.	Births.	Marriages.	Deaths.	Total.
Navy Department. Police department, District of Columbia Commissioner of Pensions. Industrial Home School.	13	6	12 128	2: 1: 14
Board of Children's Guardians District attorney Adjutant General, United States Army	5 1		1 1	
Bureau Engraving and Printing. Juvenile court Fire department, District of Columbia. United States Marine Corps			1 2 2	
District of Columbia National Guard			2	
Issued without fee I.	48 258	6 7	151 856	1, 1:
Total	306	13	1,007	1,3

¹ Amount collected, \$560.50.

Registration of physicians, dentists, undertakers, and midwives.— The following table shows the number of names of physicians, dentists, undertakers, and midwives on the registers of the health department during the fiscal year 1917, and at its close: Physicians, dentists, undertakers, and midwives registered during the fiscal year 1917.

	On register June 30, 1916.	Registered during the year.	Known deaths during the year.	On register June 30, 1917.
Physicians. Dentists. Undertakers.	1,870 867 286 92	1 59 19 16	14	1,915 886 302 91

¹ Licenses registered, 8B and 33C; registered without licenses—Navy, 4; Army, 12; Public Health Service, 2.

Cemeteries and crematories.—There was no change in the number or location of the cemeteries and crematories in the District during

the fiscal year 1917.

Permit and complaint office.—While the receipt of complaints of nuisances, etc., has no direct relation to the issue of burial permits, yet for purpose of convenience such complaints are received in the permit office connected with the bureau of vital statistics. The number of complaints received during the fiscal year 1917 was 4,147. Cost.—The cost of maintaining and operating the bureau of vital

Cost.—The cost of maintaining and operating the bureau of vital statistics during the year was \$5,016.52. Fees for the issue of transcripts amounted to \$560.50. The net cost of the bureau during the

vear was therefore \$4,456.02.

LEGISLATION.

Amendments to the regulations governing public health were made during the year as follows:

Commissioners of the District of Columbia, Executive Office, Washington, September 8, 1916.

Ordered: That the regulations adopted by the Commissioners of the District of Columbia on April 2, 1912, entitled "Regulations to Prevent the Spread of Tuberculosis in the District of Columbia," be and are hereby amended by adding thereto

the following section, to be effective on and after October 1, 1916:

Sec. 7. No person suffering from laryngeal or pulmonary tuberculosis, or from tuberculosis in any other communicable form, shall attend any public or private school, either as teacher, pupil, janitor, or helper. No superintendent, principal, or teacher, and no parent, guardian, or other person having power and authority to prevent, shall permit any person suffering from laryngeal or pulmonary tuberculosis, or from tuberculosis in any other communicable form, to attend any public or private school, either as teacher, pupil, janitor, or helper: Provided, however, that the provisions of this section shall not apply to schools maintained solely for the instruction of persons suffering from tuberculosis.

Official copy furnished health department.

By order:

(Signed)

D. J. Donovan, Secretary.

Officially published in the Washington Post, Washington Herald, Evening Star, and Washington Times on September 11 and 12, 1916.

Commissioners of the District of Columbia, Executive Office, Washington, October 17, 1916.

Ordered: That section 4 of "An ordinance to provide for the inspection of streets, food, live stock, fish and other marine products in the cities of Washington and Georgetown, and to define the duties of inspectors and other officers of the board of health," is hereby amended by striking out the words "and sieze, and" after the word "con-

demn" and inserting in lieu thereof the words "denature or seize, or;" by inserting the word "denaturing" after the word "condemnation;" and by striking out the word "and" after the word "seizure" and inserting in lieu thereof the word "or," so that

said section shall read as follows:

SEC. 4. That it shall be the duty of each inspector of food to attend the market or markets within his inspection district every morning, at the time when sales commence, and carefully inspect all meats, fowl, game, and vegetables offered for sale, and condemn, denature, or seize, or cause to be removed such as may be diseased or from any other cause rendered unfit for food. He shall also visit, as early as practicable each day, every green grocery or other place within his district where articles of food are kept for sale and perform his duty of inspection, condemnation, denaturing, seizure, or removal as hereinbefore prescribed. He shall report his official proceedings daily to the health officer, and in the performance of his duties shall be under the direction of said officer; and the inspectors of food shall perform such other duties and special inspections as may be directed by the health officer.

Official copy furnished health officer, D. C.

By order:

(Signed) D. J. Donovan, Secretary.

Officially published in the Evening Star of October 18, 1916.

[Order requiring that dogs in the District of Columbia be muzzled.]

Commissioners of the District of Columbia, Executive Department, July 19, 1916.

Ordered: That under the provisions of section 7 of the act of Congress, approved June 19, 1878, entitled "An act to create a revenue in the District of Columbia by levying a tax upon all dogs therein, to make such dogs personal property, and for other purposes," the Commissioners hereby give notice that every dog in the District of Columbia shall, for a period of one year from and after the 10th instant, wear a good and substantial muzzle, securely put on, so as to prevent it from biting or snapping, and any dog going at large during said period without such muzzle shall be taken up by the poundmaster and impounded.

Official copy furnished health department.

By order:

(Signed) D. J. Donovan, Secretary.

Officially published in the Washington Star and Times July 20 and the Herald and Post July $21,\,1916.$

PERSONNEL.

Changes in the incumbency of the chief clerkship and the chief food inspectorship have already been noted; also the appointment of

a chief medical and sanitary inspector of public schools.

The organization of the health department has been very materially disarranged during the current year by reason of the large number of officers and employees called into active military service, and it seems certain that more will follow. Those called into service prior to the close of the fiscal year were as follows:

Health-office status.	Name.	Service.	Rank.
Food inspector	Pierre A. Chamberlin	Quartermaster's Depart-	Clerk.
Clerk	Leroy B. Foster	Navy	Lieutenant, junio
Do Sanitary inspector	Richard S. Gessford Dr. Arthur L. Murray	National Army Army, D. C. Hospital	grade. Second lieutenant. First lieutenant.
Do	Arthur S. Woodland	National Army	Second lieutenant.

Since the close of the year, the following additional officers and employees have entered the military service:

Health-office status.	Name.	Service.	Rank.
urse, contagious disease	Mary S. Culbertson	Red Cross	Nurse.
service. lerkssistant health officer	Robert C. Kilmartin, jr Dr. John L. Norris	Marine Corps Medical Reserve Corps, U. S. A.	Second lieutenant. Captain.
anitary inspector	Dr. Raymond Randall	Veterinary section Offi- cers' Reserve Corps.	Second lieutenant.
lerk	William M. Smith	Troop A, First D. C. Cavalry.	Sergeant.
ond inspector	Dr. John P. Turner	Veterinary Corps, Na- tional Army.	Major.

Respectfully,

WM. C. WOODWARD, M. D., Health Officer.

To the Commissioners of the District of Columbia.

APPENDIXES

TO THE

REPORT OF THE HEALTH OFFICER

OF THE

DISTRICT OF COLUMBIA.

The publication of these reports as appendixes to the report of the health officer is not to be construed to mean that the opinions and recommendations set forth in them have been adopted by the health department.



APPENDIX A.

REPORT OF THE CHIEF MEDICAL INSPECTOR.

OCTOBER 6, 1917.

Dr. WILLIAM C. WOODWARD,

Health Officer, District of Columbia.

Sin: I have the honor to submit the following report for the fiscal year ended June 30, 1917, of work done in the contagious-disease service, disinfecting service, and the public crematorium. The figures relating to administrative matters cover the fiscal year named. Those relating to morbidity and mortality cover the calendar year 1916.

COMMUNICABLE DISEASES.

Figures showing the prevalence and fatality of each of the reportable diseases will be found with the tables relating to the disease. There was a decrease in the number of reported cases of smallpox's sarlet fever, typhoid fever, pellagra, and tuberculosis, and an increase in diphtheria, measles, whooping cough, chicken pox, epidemic cerebrospinal meningitis, and anterior poliomyelitis.

Diphtheria.—During the calendar year 1916, 647 cases of diphtheria were reported with 32 deaths, as against 644 cases and 28

deaths in the preceding year.

Nine institutional outbreaks occurred as follows, a very large percentage of cases reported being, however, carrier cases:

Institution.	Beginning of outbreak.	Cases.	Deaths.
National Training School for Boys 1 Industrial Home School for White Children. Washington Asylum Hospital Children's Hospital Children's Hospital Freedman's Hospital Bayland Home Baylan Home Baylan Home Florence Crittenden Home	Nov. 27, 1915 June 2, 1916 Jan. 14, 1916 Jan. 26, 1916 Jan. 29, 1916 July 10, 1916 Aug. 18, 1916 Nov. 11, 1916 Dec. 19, 1916	53 7 17 76 46 8 7 7	1 3

¹This outbreak started at end of last calendar year, at which time there were 98 cases from this institution reported, making a total of 151 cases,

Much might be done to prevent outbreaks of diphtheria in institutions if those in charge would take cultures from all new patients upon their admission, and pending examination of such cultures isolate such patients. Should they be found to be carriers of diphtheria bacilli that fact would be discovered before much harm could result.

In several previous reports it was recommended that the regulations now in force for preventing the spread of diphtheria be amended so as to require persons residing in houses where diphtheria exists to have cultures taken from their throats as soon as practicable after the cases are discovered. It is believed that the prompt taking of cultures from all members of households in which diphtheria is found to exist, would in many cases lead to the discovery of "carrier cases," and immediate steps could then be taken to isolate such persons. It is again recommended also that the last culture taken from a person suffering from diphtheria, with a view to releasing him from quarantine, be taken by a medical inspector of the health department. It is believed that the adoption of these recommendations would go far in preventing the spread of diphtheria in the District of Columbia.

From January 1 to June 30, 1917, 332 cases of diphtheria with 15 deaths were reported, as against 356 cases with 19 deaths for the preceding year. It will be observed that not only did the number of cases decrease, but the percentage of fatalities also decreased from 5.4 in 1916 to 4.5 in 1917.

For information relative to the number of diphtheria cultures

examined during the year see the report of bacteriologist.

Scarlet fever.—During the calendar year 1916, 530 cases of scarlet fever with 6 deaths were reported, as against 794 cases with 8 deaths for the preceding year, a decrease of 264 cases. The percentage of deaths to cases decreased from 1.1 per cent to 1 per cent.

From January 1 to June 30, 1917, 269 cases and five deaths were reported as against 309 cases and 6 deaths for the corresponding

period of the preceding year.

Four institutional outbreaks occurred as follows:

Institution.	Beginning of outbreak.	Cases.	Deaths.
Industrial Home School for Colored. Georgetown University. St. John's Orphanage. Bruen Home	Mar. 31, 1916	12 4 3 3	

Typhoid fever.—During the calendar year 1916, 308 cases of typhoid fever, with 46 deaths, were reported, as against 359 cases, with 42 deaths, for the preceding year—a decrease of 51 cases. Forty-six cases, or 14.9 per cent, terminated fatally, the percentage of the fatalities during the preceding year having been 11.7. With the exception of the year 1915, when there was an increase over the year 1914 of 19 cases, there has been for a number of years a steady decline of cases reported.

No milk nor institutional outbreak of typhoid fever was discovered during the year.

Investigation of 308 reported cases of typhoid fever gave the following information:

8	
Contracted outside of the District of Columbia.	116
Contracted probably outside of the District of Columbia	10
Contracted from other cases	5
Contracted probably from other cases	1
Contracted from sources unknown	1/4
Cases where no information was obtained.	2

Potomac water exclusively	168
1 Otomac and other waters	2
Well water	6
Spring water	0

In 31.5 per cent of the cases in which information was obtainable, the premises were well screened, 3.9 per cent of the patients had eaten raw oysters, 36.4 per cent had eaten raw vegetables, 20.1 per cent had eaten ice cream, 0.9 per cent had bathed at the bathing beach, 2.9 per cent had bathed in the river and other places, 6.2 per cent had employed new domestics within two weeks of onset, 25.6 per cent had eaten meals outside of their own home within two weeks of onset.

From January 1 to June 30, 1917, 65 cases were reported with 11 deaths, as against 91 cases and 16 deaths for the corresponding period of the preceding year—a decrease of 21 in the reported cases

and decrease from 17.6 to 16.9 in the percentage of deaths.

Smallpox.—During the calendar year 1916 four cases of smallpox were reported, all of which recovered. During the previous year 15 cases were reported. During the first six months of 1917 three cases were reported.

The vaccination histories obtained from the patients were as

follows:

Never vaccinated Never successfully vaccinated	1 5
Total	6

During the fiscal year just closed new cement porches were built at the smallpox hospital, replacing the old dilapidated wooden ones, and a new covered porch with a cement floor was also put in the front of the administration building. At the smallpox hospital an incinerator for refuse has just been installed. The quarantine station was painted on the outside but is still badly in need of interior painting.

The wooden bases to the pillars on the front of the crematorium

were replaced with cement, and cement porches were built.

Whooping cough.—During the calendar year 1916, 2,224 cases of whooping cough were reported, with 41 deaths, as against 674 cases

and 19 deaths during the previous year.

An epidemic of whooping cough began in April, which continued practically unabated throughout the spring and early summer, gradually diminishing in the latter part of August and terminating in September.

Measles.—During the calendar year 1916, 2,642 cases of measles were reported, with 6 deaths, as against 1,940 cases and 5 deaths

during the previous year.

Three institutional outbreaks occurred as follows:

Institution.	Beginning of outbreak.	Cases.	Deaths.
Freedman's Hospital. Bell Horne St. Elizabeth's Hospital.	Jan. 8, 1916 Apr. 10, 1916	5 8 22	

An epidemic of measles began about February 1, 1916, and subsided about August 1, 1916.

Tuberculosis.—During the calendar year 1916, 1,061 cases of tuberculosis were reported, with 694 deaths, as against 1,095 cases

and 734 deaths during the previous year.

Pellagra.—During the calendar year 1916, 16 cases of pellagra, with 9 deaths, were reported, as against 22 cases, with 11 deaths, during the previous year. Of the 16 cases reported, 11 were white, with 7 deaths, and 5 were colored, with 1 death.

Leprosy.—There were no new cases of leprosy reported. The department still has under its care one leper, who came to Washing-

ton in June, 1914.

Acute anterior poliomyelitis.—During the calendar year 1916, 39 cases of acute anterior poliomyelitis, with 6 deaths, were reported, as against 6 cases and 2 deaths during the previous year. The first case reported during the outbreak was on July 13 and the last case on October 5.

During the first six months of the calendar year 1917 no case of anterior poliomyelitis was reported, while during the corresponding

period of the previous year, 2 cases were reported.

ISOLATING WARDS.

The following table shows the number of patients treated at Garfield Memorial and Providence Hospitals, and the diseases for which said patients were treated, together with the total number of patient days during the fiscal year 1917:

Service rendered by the isolating wards of Garfield Memorial and Providence Hospitals during the fiscal year 1916-17.

	Cases t	reated at	public	expense.		Private	cases.	
Diseases treated.	Numi patie		Patien	t days.	Num	ber of ents.	Patient	days.
	Gar- field.	Provi- dence.	Gar- field.	Provi- dence.	Gar- field.	Provi- dence.	Gar- field.	Provi- dence.
Chicken pox. Chicken pox and measles. Diphtheria and searlet fever. Diphtheria and measles. Epidemic cerebrospinal meningitis. Erysipelas. Erysipelas and searlet fever. Measles. Measles suspect. Measles suspect.	2 5 5 3 8 13 1 58	166	42 40 234 35 234 277 20 630	2,833	1 1 1 4 10	70	33 13 48 42 56 115 409 3 1,730	
scarlet fever and measles. Suspected scarlet fever. Suspected diphtheria. Suspected ersipelas. Suspected epidemic cerebrospinal meningitis Whooping cough and measles Suspected whooping cough. Total.	2 14 1 2		20 334 59 14 6, 208		1 2	11	6	

DISINFECTING SERVICE.

During the fiscal year 1917, 1,794 premises were disinfected for the diseases named: Diphtheria, 409; scarlet fever, 407; smallpox, 11; tuberculosis, 908; epidemic cerebrospinal meningitis, 16; typhoid fever, 1; anterior poliomyelitis, 40; pneumonia, 2.

The following articles were disinfected at the disinfecting station: Mattresses, 41; feather beds, 1; bolsters, 9; pillows, 90; quilts, 15; blankets, 10; matting, 1; rugs, 8; cushions, 6; sheets, 3; bundles of clothes, 5; piano covers, 1; couch covers, 1; bath robes, 1; satchels, 2; spreads, 2; books, 1,290; total, 1,486.

PUBLIC CREMATORY.

During the fiscal year 1917, 550 bodies were cremated—112 adults, 181 infants, and 257 stillborn babies. The total cost of maintaining the crematory, including personal service, repairs, supplies, etc., was \$1.630.89.

Estimating the bodies of 181 infants as equivalent to 15 adult bodies, and excluding stillborn children altogether, an equivalent of 127 adult bodies were cremated. Figured on 127 adult bodies, the cost of cremation for an adult body was \$12.84.

There were 38 private cremations during the year, for which fees were paid amounting to \$975. Deducting this amount from the total cost of maintenance, the net cost to the Government for the maintenance of the crematory was \$655.89, and the cost of cremating each adult body required to be buried at public expense was \$5.16\frac{1}{2}.

The crematorium was in operation during the year 110 days.

Eugene L. Le Merle, Chief Medical Inspector.

Hospitalization of communicable diseases during the calendar year 1915-16.

			Tr	eated in	hospital	S.	
Diseases.	Cases re	ported.		Number of cases.		Per cent of all cases.	
	1915	1916	1915	1916	1915	1916	
Diphtheria Scarlet (ever	644	647	194	221	30. 1	34.1	
Scarlet fever	. 794	530	244	173	30.7	32.6	
Measles	. 1,940	2,642	32	50	1.5	1.9	
Whooping cough Chicken nox	. 674	2,224	12	15	1.8	. 7	
Chicken pox Smallpox	. 932	1, 139	3	8	.3	. 7	
Epidemia	. 15	4	15	4	100.0	100.0	
Epidemic cerebrospinal meningitis Anterior poliomyelitis. Typhoid	. 5	6	3	5	60.0	83.3	
Typhoid Typhoid	. 6	39		4		10.3	
Typhoid Pellagra	. 359	308	96	196	26.7	63.6	
	. 22	16	19	11	86.0	68.8	



APPENDIX B

REPORT OF THE CHIEF FOOD INSPECTOR.

JULY 30, 1917.

Dr. WM. C. WOODWARD,

Health Officer, District of Columbia.

 D_{EAR} Sir: I have the honor to submit the annual report relative to the operation of the food-inspection service during the fiscal year

ended June 30, 1917.

Dairy farms.—A comparative statement showing the number and location of dairy farms from which milk is sold in the District of Columbia, the number of cattle on such farms, and the frequency of farm inspections, for the fiscal years 1916 and 1917, is submitted. (See p. 23.) There was a decrease during the latter year of 97 in the number of dairy farms registered and an increase of 1,091 in the number of dairy cattle.

The decrease in the number of dairy farms licensed is apparent only, being due solely to the cancellation on the records of the department of a number of farms that have been carried on the records when in fact they had discontinued business. This fact is further borne out in that there was an increase of 1,091 in the number of cattle on farms

sending milk here for sale.

During the year covered by this report the practice was adopted of not accepting applications for permission to send milk into the District of Columbia for sale unless the farm described substantially complied with the regulations of the District of Columbia. In this way applications were acted upon more promptly, and the number of pending

applications has been greatly decreased.

Tuberculosis and tuberculin testing.—Nine thousand six hundred and ninety-one cattle on the farms producing milk for sale in the District were reported as having been officially tuberculin tested during the year. Of these, 9,346 passed, 301 reacted, and 44 were regarded as suspicious. Several of those reported as suspicious were retested and passed. Reports from those herds which are regularly tested are still gratifying, in that practically no reactions are now noted. The percentage of tuberculous animals found decreased from 3.6 to 3.3 per cent.

The milk from eight herds was tested by inoculations to determine the presence of tubercle bacilli. All of these tests proved negative. This is the first year since this method was adopted that no positive

results were obtained.

Duries.—There was an increase in the number of inspections of dairies during this year, due in part to the fact that the inspector assigned to this work has not been required, as heretofore, to devote a portion of his time to clerical work, a clerk having been available for such duty, and in part to the fact that the number of licensed dairies, all subject to inspection, has decreased.

Pasteurization and grading.—From the results of examination of specimens of milk sold in the District of Columbia it is evident that the pasteurization of milk should be under the control of the District government, and I so recommend; and further that all milk sold here be required to be labeled as of a specified grade, such grades to be established by law.

Milk cans.—Approximately 18,000 milk cans being returned to producers of milk were examined during the year. Of this number 235 were tagged so as to notify the owners that such cans were not suitable for the purpose for which they were being used. Invariably this tagging resulted in the discontinuance of the use of the cans for

shipping milk.

Inspection of markets, groceries, and other places where foods are prepared for sale and sold.—There was a decrease in the number of inspections of places of this character during the year, accounted for by the detail of one inspector for one-fourth of the year to a revision of the food register. This revision has shown that many places have been carried on the register as places where food was sold, although as a matter of fact they were no longer used for that purpose. The register is being corrected as rapidly as possible, so that it may show the true condition. Inspections of markets and the other classes of establishments named would, in my opinion, be more valuable to the community if the health department could prevent the establishment or continuance of any such enterprise whenever the premises occupied by it are from a sanitary standpoint unsuitable for the business.

It is recommended that the removal of garbage and refuse from markets be done during the night, instead of during market hours,

as at present.

Inspection of slaughterhouses.—There are now 15 slaughterhouses in the District of Columbia, six such establishments having discontinued business during the year. Inspections of slaughterhouses numbered 287. The decrease in the number of slaughterhouses is accounted for by the fact that a number of the smaller butchers are now killing in larger establishments, where better facilities for such work are provided. There were inspected at the time of slaughter: Cattle, 80; sheep, 357; and calves, 610. None of these animals was found unfit for food. It is recommended that all animals slaughtered in the District of Columbia for food be inspected and passed before their carcasses are permitted to be sold for food.

Communicable diseases of animals.—One hundred and twenty-seven dogs were reported to the health department as rabid or suspected of being rabid, and were examined by department veterinarians. Last year such reports numbered but 23—dogs 18 and cats 5. In two cases during the past year the diagnoses were confirmed by post-mortem findings of the Bureau of Animal Industry, United States Department of Agriculture. (For a detailed report on this disease, see p. 17.) The increase in the number of reports received was due to the fact that members of the police department have been ordered to report to the health department all cases where persons are found to have been bitten by dogs, and such reports have been received and acted upon.

In this connection I wish to suggest that it be declared a misdemeanor for any owner of a dog in the District of Columbia, which is known to have bitten a person, to remove such dog from this jurisdiction before it has been examined by this department and

permission given for such removal.

Anthrax was reported in a dairy farm district in Virginia, and glanders was reported among horses belonging to a contractor in the District of Columbia. Investigation was made in each case. In the former 205 cattle were examined, and in the latter 305 horses were examined. No positive cases were found.

Recommendations.—I recommend that an additional section to the regulations for the government of dairies and dairy farms be recommended to the Commissioners, as follows: On and after July 1, 1918, all cattle on any dairy farm on which milk is produced for sale in the District of Columbia shall be free from tuberculosis, as demonstrated by the application of an official tuberculin test, the test to be applied once each year or as often as the health officer may deem it necessary.

It is further recommended that said regulations be amended so as to provide that no milk or cream be brought or sent into the District of Columbia for sale, or for manufacture, or be sold, stored, held for sale, or offered for sale in this jurisdiction, unless said milk or cream be kept at a temperature not exceeding 50° F.; and that no utensils or pails used to receive the milk as secreted from the udder of the cow shall have an uncovered opening at the top exceeding 7 inches in

diameter.

It is recommended that section 12a of an ordinance to prevent the sale of unwholesome food in the District of Columbia be amended so as to provide that no market, store, or stall where food is offerred for sale and sold shall be established, maintained, or continued without a certificate from the health officer that the premises are in a sanitary condition and suited to the conduct of such business.

Recommendation is also made that the manager of every cold storage plant in the District of Columbia be required to keep a record, accessible to the health department, of the movement of perishable

food products into and out of his plant.

It is further recommended that all dealers, whether indoors or out, in meat or other food which is not commonly washed, peeled, or cooked before being eaten, be required to provide cases for displaying such articles, so that such food will be protected from flies and other insects, as well as to prevent indiscriminate handling of these products by prospective purchasers.

R. R. Ashworth, D. V. S. Chief Food Inspector.



APPENDIX C.

REPORT OF THE CHEMIST.

July 14, 1917.

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Sir: I have the honor to submit the following report relative to the work performed in the chemical laboratory during the fiscal vear 1917.

During the year there were examined a total of 9,543 samples, as follows.

Health department, examinations for—	22
Candy Drugs	83 187
Foods	9,064
Miscellaneous	14
	9, 497
Coroner, examinations for. 1 Police department, examinations for. 44	.,
Purchasing officer, examinations for	
	46
	0.549

A tabulated statement, in detail, of the above articles, together with a similar statement for the preceding fiscal year, appears on page 67.

MILK AND CREAM.

Data concerning the collection of samples of milk and cream, results of analyses, and results of prosecutions, during the fiscal year 1917, appear in the following statements:

Milk: Sources of samples collected, the number from each source, and the percentage from each source below standard during the fiscal year 1917.

	Number collected.1	Per cent of total collections.	Below 31 per cent butter fat.	3 per cent and below.
District of Columbia dairymen Stores, lunch rooms, etc. Wagous from Maryland Virginia. Likon Station, from Maryland farms Station, from Virginia farms Union Station, from other States.	1, 192 997	13. 72 1. 36 14. 30 11. 97 26. 09 32. 28 . 28	9. 79 26. 31 13. 42 9. 72 8. 18 11. 34 17. 39	0. 17 6. 14 1. 08 . 40 . 55 . 74
Total	8, 315			

¹Does not include 67 samples of milk used for experimental purposes, examined for preservatives or identified as milk products in illegal shipments.

Cream: Places where samples were collected, the percentage from each source of those found below standard, and the percentage from each source of those containing 18 per cent and less of butter fat during the fiscal year 1917.

	Number collected. ¹	l'er cent of total collections.	Below 20 per cent fat.	Below 18 per cent fat.
District of Columbia dairymen	28	7.74	82.14	32.14
Stores, lunch rooms, etc	5	1.38	80.00	40.00
Wagons from— Maryland	44	12, 15	70, 45	31.82
Virginia	105	29.01	63, 81	23, 81
Union Station, from Maryland	72	19.89	68.05	31.94
Stations, from Virginia	85	23.48	64.70	32.94
Union Station, from other States	23	6.35	13.04	4.34
Total	362			

¹ Includes 14 samples examined for purposes other than fat determination.

Milk and cream: Percentages containing less than the legally required amount of butter fat and the percentage of samples of milk containing added water, annually during the five fiscal years ending 1917.

Fiscal year.	than 20 per	taining less	Milk con- taining added water.
1913	48. 27	4. 89 4. 69 7. 71	0.63 .97 .76
1916 1917	61.39	8. 52 10. 63	1. 22 1. 50

Prosecution for the sale of milk below standard, milk containing added water, and milk containing foreign matter, and cream below standard, in the District of Columbia, during the fiscal year 1917.

Sources of samples.	Prosecu- tions.			Tried.				
		pros.	Personal bonds.	Fines.				
Resident milk dealers Stores, lunch rooms, etc By rail from—	1 4				1 4			
Maryland	16 13			(6) \$105 (10) 170	10 3			
Maryland	11 7		1	(3) 45 (6) 100	7			
Total	52		1	(25) \$420	26			

Note.—Action was suspended in 49 cases during the year.

It will be noted from the above statements that the percentage of milk containing less than $3\frac{1}{2}$ per cent butter fat and the percentage containing added water have both increased steadily during the last three fiscal years. In my opinion, the first of these conditions is due to the fact that within the last few years the tendency has grown among neighboring milk producers to introduce more and more

Holsteins into their dairy herds, the idea being to secure greater quantity to sell at top-notch prices. The increased quantity is, of course, secured at the expense of quality, with the result that a larger proportion of the milk collected is found to be below 3½ per

cent fat.

The increase in the proportion of samples containing added water is probably due to several factors. The demand for milk has been great during the past fiscal year and high prices have prevailed Under these circumstances the temptation to make up short volume or partly filled cans with water has undoubtedly led to more watering than usual. The knowledge on the part of some milk producers that the food laws of the District of Columbia are considerably tied up in the courts may have encouraged some few in this practice. Finally. Ibelieve that the fact that action was suspended by this Department in so large a proportion of watered milk cases has not failed to have some effect in increasing the added water habit. In this connection it may be mentioned that, out of 84 cases of watered milk disclosed during the year, action was suspended in 43 cases.

WATER.

One hundred and forty-nine samples of water were subjected to a sanitary chemical analysis during the year, as follows:

Sources.	Total samples examined.	Good.	Sus- picious.	Con- demned.
Dairy farms Private wells. Public schools.	6 79 12 52	4 46 9 35	4	2 29 3
Total	149	94	8	47

Sixty-six and two-thirds per cent of the samples of water from wells on dairy farms showed no evidence of pollution, none were classed as suspicious, and 33½ per cent were condemned. From private wells, 58.23 per cent showed no evidence af injurious contamination, 5.06 per cent were classed as suspicious, while 36.71 per cent were condemned. From public school wells, 75 per cent were found free from pollution, none were classed as suspicious, and 25 per cent were condemned. From public wells 67.30 per cent were free from injurious contamination, 7.70 per cent were classed as suspicious, while 25 per cent were condemned.

MISCELLANEOUS ANALYSES.

Bread.—Forty-six samples of bread were purchased and submitted to analysis in order to determine the composition and the relative economy of the loaves, selling for different prices. This information was particularly interesting because the price of bread had been raised about November 1, 1916. The loaves examined varied in price from 4 to 12 cents, and the determinations and calculations made on each included net weight, moisture, protein, ash, weight of bread for

each cent spent, weight of solid matter for each cent spent, and weight of protein for each cent spent. The results of this investigation have been published in the June, 1917, number of the American Journal of Public Health and may be summarized as follows:

1. The 4-cent loaves appeared to have been the most economical and the 6-cent loaves the least economical at the time of the investi-

gation.

2. The 10-cent and 12-cent loaves were not the most economical,

as we had been led to believe.

3. The purchasing power of the consumer's penny as regards bread had decreased between 13.1 and 21.5 per cent since November, 1916.

As the price of bread in Washington was raised again about May 1, 1917, 13 loaves of bread were purchased shortly after that date and the net weight and weight of bread for each cent spent was determined in each case. The prices of the various loaves were 6, 8, 9, 10, 14, and 15 cents. It was found that the most economical of the loaves examined at that time was more expensive than the least economical loaf found in the previous examination. In the majority of cases the cost of the bread had increased about 33\frac{1}{3} per cent, based on the net weight and retail price of each loaf.

Butter.—During the year 84 samples sold as butter were submitted for analysis. Seventy-five of these samples were purchased in lunch rooms and restaurants. Of these, 44 were found to be genuine butter, 13 were oleomargarine, and 18 were renovated or "process" butter. These cases are pending. The other nine samples of butter were from stores and markets. All of these samples proved to be genuine butter, but one contained water in excess of the legal limit.

Action was suspended in this case.

Drugs.—A total of 187 drugs was examined during the year, including tincture of iodine, elixir of iron, quinine, and strychnine, chloroform liniment, solution of magnesium citrate, mercurial

ointment, zinc ointment, and one sample of "Pilo."

The samples of tineture of iodine, elixir of iron, quinine, and strychnine, chloroform liniment, and solution of magnesium citrate were collected and analyzed in collaboration with the Bureau of Chemistry of the United States Department of Agriculture. Of the four samples of tineture of iodine examined two were deficient in potassium iodide and iodine, while two complied with the pharmacopæial standard, although one of these failed to bear a statement on the

label of the proportion of alcohol in the product.

Of the 42 samples of chloroform liniment analyzed, 13 complied fairly closely to the pharmacopœial standard, while 29 were misbranded or adulterated, or both. Of these, 9 were deficient in alcohol, 1 was deficient in camphor, 4 were deficient in chloroform, 2 were deficient in both alcohol and camphor, 5 were deficient in chloroform and alcohol, 5 were deficient in chloroform and camphor, 5 were deficient in chloroform, camphor, and alcohol, and in two cases camphor was entirely absent. Four samples were not labeled to show the presence of chloroform and alcohol, one sample was not labeled to show the presence of alcohol, and one sample was labeled soap liniment.

Of the 46 samples of elixir of iron, quinine, and strychnine examined, 3 conformed to the label statement, while 43 were misbranded, adulterated, or both. Only two samples contained no phosphoric

acid or phosphates. Of the 44 samples containing phosphates, 28 were labeled to show the presence of phosphates. Not a single sample of those examined conformed to the official formula for clixir of iron, quinne, and strychnine. Twenty samples appeared to be made according to the formula for the clixir of iron, quinine, and strychnine phosphates of the U. S. P. VIII, no longer official. Three corresponded fairly well to the clixir of iron pyrophosphate, quinine, and strychnine, N. F. IV.; 1 appeared to be clixir of iron phosphate, quinine, and strychnine, N. F. III; 1 corresponded to the clixir of iron, quinine, and strychnine, N. F. III, and 11 appeared to have been prepared according to private formulas. Five samples were deficient in alkaloids, 2 contained highly excessive quantities of alkaloids, 11 failed to bear statements of the alcoholic content, and in 9 cases the alcoholic content was incorrectly stated.

Of the 45 samples of solution of magnesium citrate analyzed, 24 were found to be misbranded, adulterated, or both. Of these, 9 were deficient in citric acid, 2 were deficient in magnesium, 10 were deficient in both magnesia and citric acid, while in 4 cases the volume was considerably short, 300 c. c. or below. In two cases the bottles

bore no label whatsoever.

Hearings on the above cases were held at the Bureau of Chemistry, the chief food inspector of this department and the chemist attending. Final action had not been taken in these cases at the end of the fiscal

year.

Of the 26 samples of mercurial ointment analyzed, 13 were so deficient in metallic mercury as to warrant the conclusion that they were the diluted mercurial ointment, or "blue" ointment. The mercury content in one sample was highly excessive. Hearings were held, but action was suspended in these cases because the department did not feel satisfied that the samples had been properly collected.

Of the 23 samples of zinc ointment examined, 2 were deficient in zinc oxide, 4 contained petrolatum instead of benzoinated lard as a base, while 8 contained excessive quantities of lead. At the hearings it appeared that it was difficult or commercially impossible to obtain a strictly U.S. P. zinc oxide at the time and that even the zinc oxides commanding the highest prices exceeded the pharmacopoeial limits

for heavy metals. Action was suspended in these cases.

A sample of "Pilo" extensively advertised as "an internal remedy for piles." was analyzed and found to consist of chocolate-coated tablets containing emodin-bearing drugs, of which rhubarb and cascara were identified. Licorice and yerba santa, and small quantities of tannin, starch, reducing sugars, gums, resins, and a trace of volatile oil were also found to be present. The analysis was made with the intention of using the results as a partial basis for prosecution under the fraudulent-advertising law.

EXAMINATIONS FOR THE POLICE DEPARTMENT.

Clothing.—Five articles of clothing were submitted for examination. One, from the victim of an assault, was found to contain seminal stains. Of the two other articles of clothing submitted in a similar case, one was found to contain blood stains, while on the other both blood and seminal stains were identified. A coat of a murder

suspect was found to contain stains corresponding to tests for blood, while his hat was free from blood stains. All these cases are pending,

Liquids suspected to be beer.—Of the eight samples submitted four were found to contain more than 2 per cent, by weight, of absolute alcohol. In one case a detailed analysis was made to determine whether the product was a fermented, malt liquor but charge in this case was withdrawn after a conference between the defendant's attorneys and the corporation counsel. Similar action was taken in the cases of the other samples containing less than 2 per cent alcohol by weight. The other cases are pending.

"Bevo" and "Noalco."—These were found to contain 0.146 per cent by weight and 0.255 per cent by weight of absolute alcohol, re-

spectively.

Sandwich.—An apple-butter sandwich which had been prepared for a schoolboy by a servant was found to contain 13.86 grains of phenol or carbolic acid. The remainder of the apple butter from which that in the sandwich had been taken was found to contain no phenol. A bottle of liquid found on the premises proved to be carbolic acid. The servant was indicted by the grand jury and the case is pending.

Blackberry cordial.—A sample of blackberry cordial suspected to contain poison was found to be free from poison. The sample had undergone acetic fermentation and contained 1.34 per cent of acetic

acid.

Pills.—These were suspected to contain abortifacients or narcotics. Neither was found. One was a cathartic pill containing podophyllum and leptandrin. A capsule submitted in this case contained quinine sulphate, and some tablet triturates were found to contain one-sixth grain codeine sulphate per tablet. A stick suspected to have been used for producing abortion was found to be dragon's blood, wrapped in the leaf of the tree from which it is obtained. The defendant in this case was not indicted by the grand jury because of insufficient evidence.

Miscellaneous substances suspected to contain poison.—Among these were samples of coffee, apples, peaches, candy, powder, sausage, sugar, and chicken. All of these were found to be free from poisonous substances, with the following exceptions. The sausage, which had been taken from a child who was about to eat it, was found to contain strychnine. The powder was found to contain bichloride of mercury.

These cases are pending.

Liquid suspected to contain gasoline and acid.—This was found to consist of an upper layer of gasoline measuring 3,400 c.c. and a lower layer measuring 100 c.c. and containing 9.12 per cent by weight of acetic acid, and 35.09 per cent by weight of sulphuric acid. The defendant in this case was charged with introducing this mixture into the dry-cleaning machine of a cleaning and dveing establishment, thereby ruining many articles of clothing as well as the machinery. The case is pending.

Examinations for the inspector of pharmacy, police department.— These included the following: Seven samples of household ammonia, not labeled in accordance with the pharmacy act. The defendants

forfeited \$5 collateral in each case.

A sample of medicine prescribed by an unlicensed practitioner: This contained 93.35 per cent water; alcohol, 0.36 per cent; 6.01 per

cent anhydrous calcium chloride; a trace of oil of anise; and organic

matter. The case is pending.
A sample of "Roachsault," a roach exterminator, which had been taken by a man in place of Rochelle salt, with serious results. This sample was found to contain 43.08 per cent by weight of sodium fluoride, the remainder being composed chiefly of silica, with traces The preparation was not labeled poison of iron, alumina, and water. as required by the pharmacy act. On agreement to properly label the preparation no further action was taken.

A sample of "Wilson's U. S. Condiment," a condition powder for animals, was suspected to be improperly labeled. Analysis of the product showed it to consist essentially of a mixture of flaxseed meal, corn meal, and powdered foenugreek seeds,—a popular condition

powder combination.

Time consumed by police department work .- A record was kept of the time spent during the fiscal year on work, both analytical and court testimony, connected with samples submitted by the police department. The results are interesting. During the fiscal year 1917 the chemist spent a total of $44\frac{1}{2}$ days on police department work. This is equivalent to 14.8 per cent of the total working year of 300 days. The assistant chemist spent 12 working days during the fiscal year 1917 on police department work, or 4 per cent of his total time for the year.

> M. A. Pozen, B. S., Phar. D., Chemist.

WM. C. WOODWARD, M. D., Health Officer, District of Columbia.



APPENDIX D.

REPORT OF BACTERIOLOGIST.

JULY 15, 1917.

DEAR SIR: I have the honor to submit the following summary of the operations of the bacteriological laboratory for the fiscal year 1917:

Specimens sent in for diagnosis numbered 15,097.

Diphtheria.—Specimens for diphtheria were 10,172 as compared with 12.514 during the year previous. Positive cultures for the diphtheria bacillus numbered 588, of which 315 were earrier cases, leaving 273 clinical cases. The great increase in the number of diphtheria cultures during these two years was due to the discovery of clinical and carrier cases in several institutions and schools, rendering it advisable to culture those who had been in contact with such cases. From the results achieved it is believed that these efforts were justified, as many carrier cases have been detected and isolated.

The experience gained during this year as well as the year previous has demonstrated that cultures should always be taken from the nose and throat of every case suspected of diphtheria or of being a carrier;

also that in no case where the diphtheria bacillus has been found should the person be discharged from quarantine until at least after two successive negative cultures have been obtained from the nose and throat; and, further, that these cultures should be taken at 24-hour intervals. I would also suggest the propriety of having the last of these negative cultures taken by a representative of the health department.

So far it has been impractical to apply the same methods to the contacts in a family group in dealing with institutions and the schools, but the few instances where this was done demonstrated the necessity for such procedure. All the evidence on these lines confirms McDonald's statement that if we would hope to control diphtheria in a

community we must begin with the control of the carrier.

Tuberculosis.—The examination of specimens of sputum shows about the same number as in the previous year, 1,589—far too few. It is hoped that additional interest can be excited and maintained, now that the health department is authorized to institute clinics for the treatment of cases of tuberculosis. It is seldom that specimens of sputum are submitted from hospitals and institutions, save one. Possibly this is because these hospitals and institutions have laboratory facilities of their own, but there is a strong contrast between them and the one hospital which sends to this laboratory specimens of sputum from all patients who have coughs. In view of the fact that nearly all these hospitals receive the same class of patients—that is to say, those whose care and treatment are paid for by the District government—why should there be such a discrepancy between the number of cases reported as tuberculosis from one hospital and the others, since all treat same class of patients?

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Typhoid fever.—Typhoid fever has occurred on several dairy farms supplying milk to Washington, and it has been found on examination that such cases, and in some persons in direct contact with them, were excreting typhoid bacilli; some convalescent persons and others apparently in perfect health. Whether in the latter cases these persons had had the disease at some previous time could not be determined, but in all probability this was the case, and these were carriers. The importance of discovering such cases in the protection of the milk supply can not be too strongly emphasized; and search for them should have a wider application than it has had in the past.

The same principles apply to the discharge of cases of typhoid after convalescence has been established and should be applied to all connected in any way with the handling of foods. There can be no question but that cases of typhoid fever are discharged before the bacilli disappear, and that these cases are a danger and are liable to spread the disease. Certainly it would seem possible for these to account for many cases originating in the city where the origin can not

be traced.

Manufacture of vaccines and serums.—Steps have already been taken for the production of curative serums, and just as soon as additional room is provided for their final preparation they will be ready for distribution. Antityphoid vaccine is also being prepared and administered to the employees of the District. It is also available for use in preventing the disease generally where its use is deemed advisable.

Bubble fountains.—An extensive study of the drinking fountains has been made during the year, and a separate report has been submitted on it. None of the devices examined was found to be sanitary; in fact, every one of them could easily become the means of spreading

mouth-borne infections.

Swimming pools, etc.—The wading ponds, bathing beach, and swimming pools, both public and private, have been examined at intervals throughout the year. The bacteriologic examination of these shows that there is much to be desired. Where the rules issued by the health department have been followed the sanitary condition has been constantly good, but these rules have been observed more by the breach than observance, and the sanitary condition was bad.

Milk and cream.—The bacteriological examination of the milk and cream has been conducted on the same lines as heretofore. On the whole, the quality of the milk, judging from the bacterial content, improved during the year, but a large amount of milk of inferior quality—I mean dirty milk—is still being brought into the District:

Samples have been collected on the same schedule as last year, and this shows that there is an increasing amount of milk which has been subjected to the pasteurizing process. Consequently the total bacterial content is lower than would obtain if it had been raw milk. The number of bacteria is too high, however, and the colon group appears in large numbers, demonstrating efforts at pasteurizing old dirty milk with a view of eliminating the bacteria, a thing next to impossible, and showing the application of the pasteurizing process in a faulty manner.

Laboratory quarters.—The laboratory has long ago outgrown its quarters, which are inadequate even for the examination of the number of specimens of milk and water now submitted, and for diagnosis. The additional duties have been imposed, which include the manufac-

ture of serums, the preparation of vaccines, the serological diagnosis of disease, make it necessary to provide additional space at the earliest moment practical.

I append a tabular statement of the number of examinations made

during the fiscal year.

		onths, July Dec. 31, 191		For six	Grand total.		
	Positive.	Negative.	Total.	Positive.	Negative.	Total.	totai.
Diphtheria: Primary positive. Primary negative. Secondary cultures.		1,704 1,632	3, 601 47	190	3,265 3,116	6, 571 268	10,172 315
Carriers. Blood from suspected cases for Widal retetin	172	576 263	748 304	160 55	681 144	841 199	1,589
Urine and feces for typhoid bacilli Malaria. Opthalmia. Maningitis.	2	29 88 4	30 90 4	2 1 2	15 38 4 1	17 39 4 3	129
Milk and cream Water, wells, springs, drinking foun- tains			815			816 191 175	1,631 302 360
Swimming pools, bathing beach, etc. Milk for tubercle bacidi Misce laneous			185 3 13			1 21	36
Grand total							15,09

Respectfully,

J. J. KINYOUN, Bacteriologist.



APPENDIX E.

REPORT OF THE SANITARY INSPECTION BUREAU.

OCTOBER 5, 1917.

Dr. WILLIAM C. WOODWARD,

Health Officer, District of Columbia.

DEAR SIR: I have the honor to submit the annual report relative to the operations of the bureau of sanitary inspection during the fiscal year, 1917. Tables showing the work done during the year named

appear on pages 63 and 64.

Ir R O

Organization.—The working force of the bureau of sanitary inspection, exclusive of the inspectors provided for the enforcement of the eight-hour law for females, was organized as follows: One chief sanitary inspector, \$1,800; one assistant chief sanitary inspector, \$1,400; seven inspectors, at \$1,200; two inspectors, at \$1,000; two inspectors, at \$900; total force, 13; total salaries, \$15,400.

Work done.—The following is a summary of the work done:

omplaints acted upon	8,852
nspections on complaint.	12, 161
Reinspections	16, 385
Reinspections. Official calls other than calls made for the service of a notice outside of assigned	
inspection districts	2,466
Number of inspections and character of places inspected of which no com-	
plaint was made and not included in the inspections on complaints:	
Ba v farms	43
Bu y farms. Bar er shops.	1,085
Baking esta lishments.	93
Cemeteries.	39
Hospitals and asylums	108
House-to-house inspections.	4, 238
Lodgings and tenements	223
Laundries.	1,460
Privies.	1, 177
Pu lie baths.	2
Pu lie uildings.	94
Playgrounds.	46
Printing offices.	406
Pu lic schools.	565
Sewage-disposal systems.	174
Sta les.	1,243
Tailor shops.	130
Theaters.	90
Undertaking esta lishments.	6
Unclassified.	417
Total	11,639

Violations of laws and regulations for the prevention and abatement of nuisances were reported in 11,885 instances. Action was taken to correct the conditions found, and 11,366 were corrected prior to the close of the fiscal year. The difference, 519, represents the number of cases for which notices were out.

Prosecutions.—Informations were filed in the police court against 233 persons, charging violations of the laws and regulations relating

to the public health, exclusive of the smoke law. These cases were disposed of as follows: Nolle prosequi was entered in 146 cases; personal bonds were taken in 33 cases; collateral forfeited in 1 case; and fines were imposed in 6 cases. There were 47 cases pending at the close of the fiscal year. The amount of fines and collaterals was \$64. The same system prevailed during this year as has prevailed previously, the assistant corporation counsel entering a nolle prosequi whenever the nuisances for the maintenance for which the defendants were charged had been abated before the cases were called for trial, although not abated until after the cases had been submitted for prosecution. Inspectors' time spent in the police court amounted to 35 working days.

Abatement of nuisances under assessment system.—Under the assessment system 217 notices were served on nonresident owners for the abatement of nuisances on property owned by them in the District of Columbia. In all but 19 cases such nuisances were abated by the owners without the necessity of further action by the commissioners. The 19 cases in which the abatement was not done by the owners the District caused the necessary work to be done at a cost of \$125.30, which was assessed as a tax against the property upon which the

nuisances had existed.

Printing offices.—During the year 406 inspections were made of printing offices—an average frequency of three and six-tenths time for each office. Particular attention was paid to composing rooms. Improved sanitary conditions have continued in such rooms during the year. Sanitary supervision has been greatly improved, as has

also the structural conditions of some places.

Bakeries.—Sanitary supervision of bakeries began about the middle of March, 1917, and during the year 93 inspections were made—an average of three for each establishment. The proprietors of these establishments responded to the suggestions made and cooperated with the health department to better conditions, with result that more natural light has been provided, structural and sanitary conditions greatly improved, and equipment kept in better condition, common towels and drinking cups dispensed with, miscellaneous articles not incident to the business were discarded, and improvements made in general.

Stables, barber shops, laundries, privies, fowl and pigeon houses, and sewage-disposal systems.—Stables, barber shops, laundries, privies, fowl and pigeon houses, and sewage-disposal systems were registered

during the year as shown in the table on page 63.

Stables.—During the year 1,243 inspections of stables were made d 177 nuisances discovered. The average frequency of an inspecand 177 nuisances discovered. tion of each stable was 0.8 time.

Barber shops.—During the year 1,085 inspections of barber shops were made—an average frequency of 1.5 times for each barber shop. Laundries.—Inspections of laundries during the year numbered

1,460. The average frequency of an inspection of each laundry was 0.58 time.

Privies.—On June 30, 1917, there were registered in the District approximately 2,733 privies, of which, however, only 115 were within the city of Washington or in the suburbs adjacent thereto; 98 privies were abolished under notice served by the department, 5 by the operation of the board for the condemnation of insanitary buildings, and 24 for other causes. There were 1,177 inspections of privies, equivalent

to each privy inspected 0.46 times during the year.

In 32 places in which privies were located upon land belonging to nonresidents the inspector of plumbing, engineer department, was requested to have the necessary sewer and water connections made under the assessment system, so that the box privies might be removed. At the close of the fiscal year, 22 of these premises had been so connected.

Thirty-three permits for the maintenance of privies temporarily during building operations or other construction work were issued.

Wieds.—Seven hundred and ten notices were served during the year under the provisions of the weed law, of which 84 were notices under the assessment system. In each instance the nonresident owner caused the weeds to be cut and removed from the property. In the absence of a special force for the enforcement of this law it is impossible to enforce it in any substantial manner. Provision should be made for such enforcement or the law should be repealed.

Smoke inspection.—The statement showing the work of the sanitary inspector detailed to the enforcement of the smoke law appears on

page 28.

Inspectors detailed.—During the year sanitary inspectors were detailed for clerical duty for periods amounting to 68 days. One clerk was detailed from the clerical service to the sanitary service for 95½ days. Sanitary inspectors were detailed to the food service for 103 days. Food inspectors were detailed to the sanitary service for 97 days.

Contagious-disease service.—The time consumed by sanitary inspectors in duty in the contagious-disease service during the year

amounted to 961 working days.

Remistration of vital statistics.—During the year 106 cases were investigated by sanitary inspectors in connection with the registration of births, involving the expenditure of approximately 7³/₄ working days.

Eight-hour female labor law.—The following is a summary of the work performed in the eight-hour female labor-law service:

The cight hour remark and a	
Complaints acted upon	199
Inspection on complaint.	112
Official calls made.	276
Number of inspections made at various kinds of establishments:	
Manufacturing.	1,528
Machanical	846
Mechanical Marganifile	
Mercantile.	815
Laundries.	
Restaurants	64
Telegraph and telephone	
Express and transportation.	
Hotels	370
Miscellaneous.	35
1,455 establishments coming within the purview of the law were registered and	
classified as follows:	
Hotels.	52
Lattindries	194
Mechanical	101
Manufacturing	4.14
ererantile.	904
nestaurants	140
Telephone and telegraph	0
Express and transportation.	36
white portabilities and a second seco	

At the close of the preceding fiscal year six cases were pending in the police court for violation of law regulating the hours of labor of females. Nine violations were reported during the year and referred to the corporation counsel for prosecution. These cases were disposed of as follows: In 3 cases a nolle prosequi was entered, in 1 case personal bond was taken, fines imposed in 9 cases, 1 case was dismissed, and 1 case was pending at the close of the year. The amount of fines was \$160.

Overtime.—Sanitary inspectors, exclusive of the supervising officer, worked 1,247 hours overtime during the year, equal to 178 working

days, without compensation.

Recommendations.—I renew my recommendations that the collection and disposal of manure be under the supervision of the District authorities; that the weed law be either repealed or some provision made that will enable the health department to enforce it in a substantial manner; that the act for the prevention of smoke in the District and for other purposes, approved February 2, 1899, be amended so as to include railway locomotives and steamboats; and that regulations be promulgated looking toward the supervision of the baby farms and other places where children are being kept for pay.

Respectfully submitted.

C. R. HOLMAN, Chief Sanitary Inspector.

APPENDIX F.

MISCELLANEOUS TABLES.

Work done by the sanitary inspection service during the fiscal year 1916-17, with reference to nature of nuisance and date of report.

													1	
			19	916					19	17			1916-17.	1915–16.
	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	June.	Total for 191	Total for 191
Alleys, filthy. Areas. Cellars. Fowls and pigeons. Lots: Filthy Stagmant water. Manure accumulations. Manure receptacles. Plumbing defective. Premises unwholesome.	48 42 45 50 51 50 32 37 13 56	62 27 32 50 56 32 26 28 6 44	17 30 30 43 25 7 9 27 20 33	19 23 21 27 29 3 7 11 25	15 17 16 23 6 	12 9 8 19 2 2 2 4 29	8 4 16 15 15 3 3 3 14 21	7 5 17 25 6 7 1 11 20	14 7 17 19 11 4 22 108 3 28	70 15 20 15 59 37 10 24 6	55 33 30 23 38 6 5 10 10 39	41 25 40 33 26 21 12 11 9 50	368 237 292 342 324 162 130 262 111 397	296 196 283 325 407 165 104 158 136 374
Pri.ies: Full I early hoves Unlawful. Roofs, learly Sewer connections. Sewers, obstructed Sheds fifty Stables. Yards fifthy Water-closets Weels. Unclassified	9 6 11 25 116 128 54 362 121 335 65	5 4 8 11 7 90 131 22 305 130 293 59	13 7 8 12 7 87 148 10 305 116 48 59	2 1 26 3 40 93 74 4 206 103 8 84	3 3 14 7 26 94 77 8 166 111	6 10 182 92 85 4 196 108	3 11 11 7 63 105 8 228 62	3 2 26 6 21 70 88 7 197 153	13 4 72 6 26 113 143 28 326 136	6 4 36 5 40 104 125 9 267 79 1 51	3 28 98 149 7 278 103 7 27	6 7 13 7 17 119 125 16 241 101 18 50	72 41 233 92 426 1,139 1,378 177 3,077 1,323 710 592	170 118 225 119 143 946 1,196 153 3,180 1,209 706 575

Number and character of inspections by the sanitary inspection service during the fiscal year 1917, with corresponding data for the preceding year.

	1915–16	1916-17
Inspections not on complaint:		
Baby farms.	49	43 93
Baring establishments		1,085
	1,161	39
Cemeteries Hospitals	10 121	108
House to beyon		4.238
House-to-house	6,279	4,235 223
l odging and tenement houses.	755	1,460
l aundries.	394	406
Printing offices. Pri. jes	2,425	1,177
Public baths.	2,423	2,111
Playgrounds. Public buildings	29	46
	60	94
Sewage-disposal systems.	150	174
Stables. Schools	735	1,243
Schools	480	565
Tailor shops Theaters.	143	130
Theaters	70	90
Underta ing actablish wayt-	.0	6
Unclassified inspections.	131	417
Total	40.450	11 020
IllSD0otiona and	13, 159	11,639
Reinspections	9, 226	12, 161 16, 385
Ullipial palle	16,005	16, 383
Notices served outside of	15,605	2,466
Notices served outside of assigned inspection districts.	2, 196	2,400
Total.	56, 191	59,643

Systematic inspections made by the sanitary inspectors during the fiscal year ended June 30, 1917.

	1916							1917					71-916	1015-16.
	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	June.	Total for 191	Total for 191
aby farms 3al-ing establishments 3arber shops. The shops.	2 26 3 263 57 49 8 16 2 7 192	274 379 19 	6 117 362 5 529 42 1 1 113 1	31 336 277 64 1 1 5 15 18 1 37 10 2	1 264 322 69 271 100 13 11 55 5	219 1 44 404 40 53 15 4 91 55 54 91 19	1 150 25 372 1 1 170 1 33 25 33 3 1	9 32 7 388 134 46 81 148 1 8 24 17	3 14 52 22 2 462 45 224 68 36 21 312 1	2 32 50 6 1 331 6 127 11 44 38 73 77	33 63 3 29 459 2 93 	12 14 38 4 265 1 102 15 20 43 10 38 1	43 93 1,085 39 108 4,238 223 1,460 1,177 2 94 46 406 565 174 1,243 130 96	1, 6, 2,

Marine products received, inspected, and condemned in the District of Columbia during the fiscal year ending June 30, 1917.

			Condem	nations.
	Arrivals. I	Inspections.	On inspection.	On request
ssbarrels	929	878	3	
iefishdo	1449	1371	11	
tterfishdo	1,4809	1,304	144	1
rpsingle.	20, 349	19,352	97	7
tfishbunches.	33,618	32,268	49	
okersbarrels.	4.2643	3,9403	61	2
lsbunches	4,955	4,777	1	
oundersbarrels	290	2861	21	
rringsingle	1,689,193	1,519,759	3,8602	
čksdo	7, 769	7,369	60	
ckerelbarrels.	3871	379	1	
illetbunches.	1.391	1,346	282	1
rehdodo	70,468	67,976	398	1,09
kedo	3,416	3,276	000	2,00
ockfishdo	41,313	39, 815	45	1
adsingle	231, 882	219,886	83	15
outbarrels.	14,7095	14, 125	363	2
hitingdo	918	9021	5	
stersbushels	237,030	224,634	206	5
stersgallons	89, 684	79,520	205	13
amsbarrels	4,632	3,970	61	AC
absdo	6,869	6, 466	3201	19
ab meatgallons	26,887	22,348	118	13
boxes	23	22,343	1102	
alibutdo	130	129	1	
addockdo	155	148	8	
ucks and geesesingle	8,148	7, 843	18	
ft crabsboxes.	605	553	2	
1g headsbarrels	92	89	2	
ud shaddodo	466	410	53	
lmon boxes	29	28	3	
uskratssingle.	1.380	1,305	12	
ngsbarrels	1,380		7	
ootsdo	257	1,158	31	
lefishdo	1481	2381	31	
orgiesdo		147		
artlessingle	541	531		
urgeondo	1,268	1,222	14	

Marine products received, inspected, and condemned in the District of Columbia during the fiscal year ending June 30, 1917—Continued.

	Arrivals.		Condemnations.				
		Inspections.	On inspection.	On request.			
Shrimp. barrels. Drumfish. boxes.	34½ 55	341 55		2			
Sheepshead. barrels. Watermelons single. Hogish barrels.	$284,445$ $20\frac{1}{2}$	274,015 20	17,767				
sheepshead do kingfish boxes mells do	3 19 113	3 19 111					
iscoes	1 19 15	1 19 15		1			
Tunices barrels barrels beyshead boxes	1 1	1 1	1				

Food other than marine products condemned in the District of Columbia during the fiscal year ending June 30, 1917.

	Con- demned by request.	Con- demned on inspection.	Total.
Beef. pounds	566	4961	1,0621
Beef kidneysdo		191	191
Muttondo	650	50	700
Lambdo	$5\frac{1}{2}$	153	1581
Vealdo	140	1031	243 1
Porkdo	35	2764	3113
Liverdo	6	177	183 390½
Sausagedo	105	2S5½	5
Shoulderdo	12	74	86
Hamdo	12	923	921
Chitterlings do Piss feet do		35	35
	61	342	403
	01	4	4
Turkeysdo	42	8	50
Duel's	42	3	3
Rabbits. do	363	560	923
Apples. bushels.	42	34	423
Peaches	103	741	1771
Plums. do	100	1.24	1*
Dried fruitpounds.		337	337
Raccoon. number.	2		2
Oranges	723	74	1461
Squirreis	1		1
Mangoes	3		3
nounds	30		30
Berries quarts Cherries do	1,105	289	1,394
	64	0.000	64 17,991
Cantaloupes number	15, 105	2,886	2,410
Pingapula	2,400	10	399
- majples do	390	298	1,873
Grapefruit	1,575	298	20
Brussels sprouts. crates.	20		3
Beets barrels Celery bunches	3	150	150
Vur kernels bunches. Nar kernels gallons. Radishas gallons.	20	. 100	20
	600	250	850
	420	4,300	4,720
	120	. 25	25
		175	175
	26	1,150	1,176
aulilower		20	20
	15,922	4,975	20,897
	112	30	142
		. 32	32
	45		45
Disnels.	3	6	9
	. 3		3 8
Opossumdo	. 8		8

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Food other than marine products condemned in the District of Columbia during the fiscal year ending June 30, 1917.

1	Con- demned by request.	Con- demned on inspection.	Total.
Potatoes bushels.	74	58	132
Peasdo	. 88	22	110
Beansdo	. 122	118	240
Turnipsdo	. 1	15	16
Tomatoesdo	861	11	88
Pears		-2	201
Onions	. 9		92
Peppersdozen.		1	9
Crabs single		783	1,533
Crab meat gallons.		11	461
Pies	10	164	164
Cakes, buns, etc. pounds.		30	30
Corn. dozen.	. 15		15
Cheese pounds.		25	25
		1 49	2,129
Eggsnumber.		49	
Butterpounds.			52
Larddo	. 40		40
Fishdo		211	4,363
Fishnumber.		. 26	26
Fishbunches.		. 49	49
Fishbarrels.		43	9
Baconpounds.		15	15
Ovstersgallons.	. 62	23	64
Oystersbushels.		16	16
Clamsnumber.		96	96
Pickles	200	100	300
Geese do			13
Crabsbarrels.		21	2
Sweet potatoesbushels.			2
Asparagusbunches.	675	74	749
Parsley	700		700
Potato chips		1	1
Salt do.		66	66
Milk gallons	. 21	00	2
Canned goodsganous		771	771
		59	59
Preservespounds.			13
Cerealspackages.			
Candypounds.		$3,354\frac{1}{2}$	3,354
Flour			196
Crackers and cracker dustdo		. 108	108
Lemonadegallons.		. 11	11

Pound report for fiscal year 1917.

			Ani	imals i	mpour	ided.					I	Dispo	sition	1.	
				Dogs.			Cats				Dog	s.			
Months.	Horses.	Cows.	Captured.	Surrendered.	Total.	Captured.	Surrendered.	Total.	Grand total.	Killed.	Redeemed.	Sold.	Returned.	Cats killed.	Total.
1916. July			85 203 156 204 148 74	212 228 115 78 68 62	297 431 271 282 216 136	6 2 6 4 3	815 460 232 166 131 79	821 462 238 170 134 79	1,118 893 509 452 350 215	284 362 227 160 145 103	9 33 25 61 46 17	5 28 28 38 31 27	2 2 2 3 2	821 462 238 170 134 79	1, 11 89 50 48 38 21
1917. January February March April May June			136 83 144 175 112 138	76 54 75 99 117 187	212 137 219 274 229 325	18 49 17 31 37 14	94 108 242 404 579 487	112 157 259 435 616 501	324 294 478 709 845 826	176 123 158 228 209 284	24 11 45 37 18 13	9 10 9 11 7 17	1	112 157 259 435 616 505	3 2 4 7 8
Total	2	1	1,658	1,371	3,029	187	3,797	3,984	7,013	2,464	339	220	1 12	3,984	7,0

Money collected by the poundmaster during the fiscal year 1917.

	For	For fees.	From sales.	Total.
Inly Angust Soptember Soptember November November	.50	\$18.00 68.00 54.00 122.00 92.00 34.00	\$10.00 23.00 25.50 26.50 39.50 28.50	\$28.00 92.00 80.00 148.50 131.50 62.50
Invary		48.00 22.00 90.00 76.00 36.00 28.00	18.00 14.00 15.00 15.50 11.00 25.00	66, 00 36, 00 105, 00 91, 50 47, 00 53, 00
Total	1.50	688.00	251.50	941.00

Statement of the work performed in the chemical laboratory during the fiscal years 1916 and 1917.

	То	tal.		erated randed.		i'terated randed.
	1916	1917	1916	1917	1916	1917
Air		2				
Alcohol 1	1					
Ammonia 1	1	7				
Apple, suspected to contain poison 1.		1				
Apple butter, suspected to contain poison 1						
Asparagus, canned		1				1
Beans, canned Beans, Lima, canned		1 6				4
Beer 1.	8	0				- 4
Bevo 1.	8	1				
Blackberries	1	1			1	
Blackberry cordial, suspected to contain poison 1		1				
Bordeaux mixture 1	1					
DICAL	55	46		17	55	29
Bread, net weight.		13				
Dutter	65	84	4	32		52
Do.2.	1				1	
Datter, renovated	1				1	
Calomel tablets 1	1					
cand)	72				72	88
	1	1				
Capsule 1 Chicken 1		1				
Chieken 1 Chimsol tablets 1 Chimsograp Links		1				
		42		29	1	12
		5		20	1	
		0				
					1	
Coal-tar disinfectants 1.	4					
Cocoa	1	1				1
	1	84		2	1	85
Coffee, suspected to contain poison 1.		1				
Cream cours	316	348	194	232	122	110
Cream, sour, suspected to contain poison		1				
Cream identification in		1				
Cream, identification, illegal shipments. Deposit, from wall of swimming read		24				
Disinfectante (for south in mining pool		1				
Epsom salta I	. 4					1
Flaxsed Flour	1				1	
Flour Gaso'ine 2	1				_	
		1				
Grape juice.		î				
Grape Juice. Hair tonic	27				27	
Hair tonic Hamburger steak Honey	36		4		32	
Honey.	30	3				3

 $^{^{\}mbox{\tiny 1}}$ Examined for the police department.

² Examined for the purchasing officer.

Statement of the work performed in the chemical laboratory during the fiscal years 1916 and 1917—Continued.

	Tot	tal.	Adulto or misb		Not adu or misb	i'terated randed.
	1916	1917	1916	1917	1916	1917
ce	1				1	
ce cream	3	1				
ce-cream cones	1					
odine, tineture of	11	4	1	3	10	1
ron, quinine, and strychnine, elixir of		46		3 43		3
ron, quinine, and strychnine, elixir of elly ¹ Justit," for flavoring. .ard.	1					
Justit," for flavoring	1		30	• • • • • • • •	1	
ard	177	8	30		147	
iqui i, suspected to be beer 1	8	8		• • • • • • • • • • • • • • • • • • • •		
iquid suspected to contain account	-	1				
iquid suspected to contain paison l						
iquid suspected to contain poison 2		1				
oganherry inice	1				1	
farmesium citrate, solution of	*.	45		24	1	2
Aqui I, suspected to be beer 1 Aqui I, suspected to contain alcohol 1 Aquid, suspected to contain gaso'ine and acid 1 Aquid, suspected to contain poison 1 Aquid, suspected to contain poison 2 Aquid, suspected to contain poison 2 Aganberry juice. I agraeium citrate, solution of I circurial outment	1	1				
Mercurial ointment		26		14		1
dilk, for experimental purposes. dilk, for experimental purposes. dilk, fidentification in illegal shipments.	8,304	8,315	703	1, 011	7,601 22	7,30
filk, for experimental purposes	22	11			22	1
Ailk, Identification in illegal shipments		32				
dilk, powder	1				1	
dilk, suspected to contain poison		1				2
filk, identification in illegal shipments. dilk, powder. dilk, suspected to contain poison. dilk, suspected to contain poison. dilk, suspected to be made from milk powder. dilk, suspected to be made from milk powder. dilk, condensed. Noalco 1. Dil, cottonseed.		20				4
wilk, suspected to be made from milk powder		3				
Voolee 1		2		1		
Oil anttonegad		1				
Dil, cottonseed	17	48			17	4
Oll, table Peaches, suspected to contain poison ¹ Peash, carmed. Pepsin, essence of ¹ Pepsin, essence of for compartive purposes. Pellos, suspected to contain poison. Pilos	11	40			1	
Peiches, suspected to contain poison 1.	1	1				
Peas, canned.		1				
Pepsin, essence of 1	1		1			
Pepsin, essence of, for comparative purposes	1				1	
Pickles, suspected to contain poison		2		1		-
Pilo		1				
		2				
Pork and beans	1				1	
Pork and beans Pigeon, body of ¹	1 3					
Powders	3	2				
Pigeon, body of ¹ . Powders. Residue, in earthenware jars ¹ . Residue, in tumbler. "Roachsault" ¹	5					
"Raphenit" 1		1				
"Rotensaut" Sand, for moisture Sandwich, suspected to contain poison 1 Sausage Sausage		1				
Sandwich, suspected to contain poison 1		1				
Sausage	1	-			1	
Sausage, link		1			1	
Sausage meat		6		1		3
Sausage, suspected to contain poison 1.		1				
Saussige fink. Saussige meat. Saussige meat Saussige supperted to contain poison 1. Setliment in milk bottle. Sirup, cane and maple. Sirup, maple. Sirup, maple. Sirup, maple. Sirup, maple. Sirup, maple.		1	i			
Sirup, cane and maple	9		1		. 8	
Sirup, maple	7				. 7	
Soup 1	1					
SUCK 1		. 1				
Stink Donins 1	1					
"Stink" bombs Sugar Sugar, cane and maple Sugar, maple.	4				4 2 5	
Sugar manle	5				5	
		1	1			
Tablet triturates 1. Vanilla, extract of.		1				
Vanilla, extract of	. 1					
Vinegar		. 2		1		
Walnuts	. 1		. 1	55		
Water	100	149	49	55	111	
Water, from swimming pool		. 1				
Water, from swimming pool Water, from sewer. Water, from tap. Water, toilet.		. 2				
Water, from tap.		. 1				
Water, tollet	. 53				- 58	
Wilson's U. S. condiment 1 Zine ointment.		. 1				
Zine omenent		. 23		. 15		

¹ Examined for the police department.

² Examined for the coroner.

Outhne of annual and average daily work of the heath department of the Distret of Columbia, with cost, during the fiscal year 1917, with corresponding for his working days).

	Emp	Employees.	Salo	Salaries.	Traveling	Traveling expenses.	Incide	Incidentals.	Total.	al.
Character of service.	1916	1917	1916	1917	1916	1917	1916	1917	1916	1917
I. General supervision. II. Clerical service. III. Registration of vital stadistics.	61 00 44	27.4	\$6,500.00 9,720.00 4,400.00	\$6,500.00 9,100.00 4,400.00	\$416.65	\$437.99 3.38 .75	\$1,721.13	\$1,821.30 615.79	\$6,916.65 11,457.79 5,102.85	\$6.937.99 10,924.68 5,016.54
	2 2 1 4	2 13 1 14	1, 200. 00 15, 000. 00 1, 200. 00 4, 500. 00		244.30 22.69 45.00	11.88 356.50 22.32 52.17	394.11 26.94 65.00	250.43 31.05 22.50		
VI. Food inspection: Supervisory Veterinary Markets.	8 9 9	8 4.0	2, 500.00 6, 400.00 6, 000.00	4, 420.00 6,300.00 7,000.00	96.81 3,466.22 180.54	283. 29 4, 055. 21 154. 44	523.33		2, 596. 81 9, 866. 32 6, 703. 87	
Chemical laboratory Dairies.	8 61	8 61	3,800.00	3,800.00	60.61	36.92	375.34	484.20	4, 433.81 2, 260.61	4,598.25
VII. Contagious disease service: Silpervisory	1		1,786.50	1,825.50	240.00	319.35			2,026.50	2, 144.85
uene Inspectors Watchmen Incidental new	120	191	5,746.13	5,726.25	77.95	127.01	880.58	2,980.01	5, 824. 08 774. 50 880. 58	5,853.26 7.00 2,980.01
Smallpox hospital— Matron Nurse. Jani or		121	756.50 232.50	586.50 250.00 104.50					756.50 232.50 64.75	586.50 250.00 104.50
Labyrers. Incidental expenses.	2	2	64.75	33.00			1, 281. 46	898.27	1, 281. 46	33.00 898.27
Quarantine station— Quarantine station— Matron Nurse.		-2-	733.00 202.50	608.00 142.50					733.00	608.00 142.50
Labriers. Incidental expenses.	2	727	41.00	9.00			912.54	693.16	41.00 912.54	9.00
Ambulance sgrviće— Dri ets. Stableman. Incilental exnenses.	-12	21	790.00 273.75	768.00 266.50			882.07	742.20	790.00 273.75 882.07	768.00 266.50 742.20
ef clerk.	-half tin	2 One-half time, \$1,000 clerk,	clerk,	eo	3 One \$720 clerk; one-half time, \$500.	k; one-half t	ime, \$500.	•	Cost of samples.	des.

Outline of annual and average daily work of the health department of the District of Columbia, with cost, during the fiscal year 1917, with corresponding figures for the preceding year (based on 306 working days)—Continued.

	Empl	Employees.	Sala	Salaries.	Traveling	Traveling expenses.	Incid	Incidentals.	Total.	-
Character of service.	1916	1917	1916	1917	1916	1917	1916	1917	1916	1917
VIII, Leper hospital: Nurse. Matron. Lab brens. Watchmen		8 25 11		\$720.00 300.00 67.50 87.75				\$749.44		\$720.00 300.00 67.50 87.75 749.44
IX. Disintecting set doc: Imspect yes Engineer Lab me Stableman Watchmen	(3) 3 1	1 553	\$2,036.00 (1) (3) 273.75	2, 037. 00 (2) 1, 466. 00 273. 50 7. 00			\$2, 287.43	1,638.51	\$2,036.00 759.37 629.00 273.75 2,287.43	2,037.00 1,466.00 273.50 7.00 1,638.51
X. Baccert 17-real aboratory. Batart 15 ist.	21		2,070.00 1,200.00 1,200.00 720.00	2, 539, 50 1, 200, 00 1, 000, 00 720, 00 78, 00		\$78.23 4.35	612.05	485.28	2,070.00 1,200.00 1,200.00 720.00 612.05	2, 617. 73 1, 200.00 1, 004.35 720.00 78.00 485. 28
			1,023.75	1,054.75			999. 22	394.64	999. 22 197. 50 1, 023. 75 602. 92	181.50 1,054.75 394.64
All found ser let Poundmaster Poundmaster Toundmaster Indicated expenses.	1,14		1,200.00	1,500.00			1,269.85	1,079.38	1,200.00 2,000.00 1,269.85	1,500.00 2,400.00 1,079.38
Total			87,826.73		\$4,867.43		13, 795. 29		99, 877. 42	

1 One disinfector, 1863 days, at \$2.50 per dlem, \$466.57; 1 disinfector, 49 months, at \$65 per month, \$292.50; total, \$759.37; 1 Now classified as disinfectors.

1 Now classified as disinfectors.

2 Now classified as disinfectors.

2 To end slitherford, 1460 hours, at 25 cents per hour, \$3.39; 1 disinfector, 49 months, at \$60 per month, \$270; total, \$629. consistent of health department.

Outline of annual and average daily work of the health department of the District of Columbia, with cost, during the fiscal year 1916, with corresponding figures for the preceding year (based on 306 working days).

I. SUPERVISORY SERVICE.

	Annual	average.	Daily av	erage.
	1916	1917	1916	1917
Health officer Assistant health officer Total cost of transportation		2,500.00	\$13.07 8.10 1.36	\$13.07 8.10 1.43

II. GENERAL CLERICAL SERVICE.

Units of work.	Annual	average.	Daily a	verage.
Chits of work.	1916	1917	1916	1917
Letters received Letters sent Ord complaints received. Special reports indexed. Employees.	10,340 3,588 1 299	10,664 10,601 4,147 1,414 7	33. 1 33. 7 11. 7 4. 2	34.8 34.6 13.5 4.6
Total cost of service Total cost of invidentals (approximate). Total cost of transportation	\$9,720.00	\$9, 100. 00 1, 821. 30 3. 38	\$31.76 5.62 .054	\$29.74 5.95 .011
Total cost, inclusive of undistributed cost of supervision	11, 457. 79	10, 924. 68	37. 44	35. 70
			1916	1917
The cost of transportation for supervising service was: Dr. Woodward, traveling Dr. Norris, automobile			\$176.55 240.00	\$137.99 300.00
Total			416. 55	437. 99

III. REGISTRATION OF VITAL STATISTICS.

	Annual	average.	Daily a	verage.
	1916	1917	1916	1917
Death certificates recorded: Local. Foreign. Birth crifficates recorded. Stillbirth crifficates re-orded. Buril and disinterment permits issued and subsequently re- cived and filed. Trus ripts issued. Colle ted for trans	7, 224 425 7, 418 1, 179 \$514.00 4	6,613 618 7,231 432 8,028 11,326 \$560.50 4	21. 22 1. 94 23. 60 1. 38 24. 24 3. 85 \$1. 67	21. 6 2. 0 24. 0 1. 4 25. 9 4. 3
Cost of *	\$4,400.00 702.85	\$4,400.00 616.52	\$14.38 2.29	\$14.38 2.01
Total cost exclusive of undistributed cost of supervision		5,016.52	16.67	16. 39

11,121 with fee.

IV. MESSENGER SERVICE.

	Annual	average.	Daily av	erage.
	1916	1917	1916	1917
Messenger and janitor Driver Cost of transportation	\$600.00 600.00	\$600.00 600.00 11.88	\$1.96 1.96	\$1.96 1.96 .039

Outline of annual and averagedaily work of the health department of the District of Columbia, with cost, during the fiscal year 1917, with corresponding figures for the preceding year (based on 306 working days)—Continued.

V. GENERAL SANITARY INSPECTION SERVICE.

A. SUPERVISION.

	Fiscal	year.	Daily a	verage.	Daily a per ins	verage pector,
	1916	1917	1916	1917	1916	1917
Chief inspector	1	1				
Clerk Total salaries.	\$2,800.00	\$3,700.00	\$9.15	\$12.09	\$9.15	

B. SANITARY INSPECTION SERVICE.

7,069 9,226	8,852	22.9	28, 9	2.8	2.9
9,226					
	12, 161	29.5	39.7	2.7	4.0
16,005	16,385	51.2	52.5	4.7	5.3
				4.6	5, 6
10,000	10,002	10.0	0010		
2 106	9 466	7.0	8.0	7	. 8
					1.4
					- 4
1,161					. 4
				. 3	.4
2,425	1,177	7.8		.7	.4
755	1,460	2.5	4.7	.3	.5
1.804		5.8	7.9	. 6	. 8
	10				
\$12 200 00	\$11,000,00	\$20.86	\$35 94	\$3.62	83.59
					. 08
					. 13
244.30	350. 50	. 19	1.10	.01	
				- 04	0.7
12,838.41	11,606.93	41.86	37.92	3.81	3. 7
11	15,605 2,196 6,279 1,161 735 2,425 735 1,804 11 \$12,200.00 394.11 244.30	15,605 16,992 2,196 6,279 4,238 1,161 1,085 785 1,243 2,425 1,177 7,425 1,177 1,804 2,436 1,804 2,436 1,814 2,200.00 304,11 244.30 356.50	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

C. SMOKE INSPECTION SERVICE.

Places under observation. Observations. Inspectors.	8, 173	384 8,530 1	26.11	27.87	26.11	27.87
Total salaries. Cost of incidentals (approximate). Cost of transportation.	\$1,200,00 26.94 22.69	\$1,200.00 31.05 22.32	\$3.94 .09 .08	\$3.94 .10 .07	\$3.94 .09 .08	\$3.94 .10 .07
Total cost of smoke service, exclusive of undistributed cost of supervision	1,249.63	1,253.37	4. 11	4. 11	4. 11	4.11

D. EIGHT-HOUR FEMALE LABOR LAW INSPECTION.

Complaints acted upon. Inspections on complaint. Inspections made on the initiative of the in- spector. Official calls made. Total large tors. Total clerks.	9,260 33 3	109 112 11,140 276 3 1	0.6 .6 29.5 .2	0.3 .4 36.4 .9	0.2 .2 9.9 .1	0. 01 . 01 12. 1 . 3
Total salaries. Cost of incidentals (approximate). Cost of transportation.	\$4,500.00 65.00 45.00	\$4,500.00 22.50 52.17	\$14.71 .21 .15	\$14.71 .07 .17	\$4.90 .07 .05	\$4.90 .02 .06
Total cost of 8-hour female labor law service, exclusive of undistributed cost of supervision	4,610.00	4,574.67	15.06	14.94	5, 02	4,98

Outline of annual and average daily work of the health department of the District of Columbia, with cost, during the fiscal year 1917, with corresponding figures for the preceding year (based on 306 working days)—Continued.

VI. FOOD-INSPECTION SERVICE.

	Fisca	l year.	Daily a	average.		average pector.
	1916	1917	1916	1917	1916	1917
A. Supervision.		1				
Chief inspector. Assistant chief inspector. Total stlaries. Cost of transportation	\$2,500.00 96.81	\$3, 200. 00	\$8.16 .32	\$10.46	\$4.08 .16	\$5.23
B. VETERINARY SERVICE.						
Dairy farms. Inspections. Staughterhouses. Inspections.	1,236 4,183 21 307	1,171 4,423 15 287	13.67	14. 45	2.28	2.06
Communicable diseases of animals: Cases reported. Inspections of horse market Inspectors.	311 104 6	129 104 6	1.01 .34	.42	.51 .17	.06
Total salaries	\$6,400.00 3,466.32	\$6,300.00	\$20.91 11.33	\$20.59	\$3.48 1.89	\$3.23
Total cost, exclusive of undistributed cost of supervision.	9, 866. 32		32.24		5.37	
C. Markets, Stores, Lunch Rooms, Etc.						
Registered at close of year. Under inspection during year Inspections. Inspectors.	5, 832 6, 215 44, 478 6	3,593 3,828 42,356 7	19.06 20.31 163.33	11.74 12.51 138.42	3.18 3.39 27.22	1. 68 1. 79 19. 77
Total salaries	\$6,000.00 523.33 180,54	\$7,000.00	\$19.61 1.71 .59	\$.2.88	\$3.26 .29 .10	\$3.27
Total cost, exclusive of undistributed cost of supervision	6, 703. 87		21.91		3. 65	
C. CHEMICAL LABORATORY.	3.3.					
Samples analyzed . Samples of food . Samples of water . Samples of miscellaneous . Employees .	9,436 9,101 160 175 3	9,543 9,064 149 330 3	30. 84 29. 74 .52 .57	31.19 29.62 .49 1.08	10.28 9.91 .17 .19	10.39 9.87 .16 .36
Salaries. Cost of food samples Cost of incidentals.	\$3,800.00 258.47 375.34	\$3,800.00	\$12.41	\$12.41	\$4.13	\$4.13
Total cost, exclusive of undistributed cost of supervision.	4,431.81		14.49		4. 83	
E. DAIRIES, AND COLLECTION OF SAMPLES.						
Inspections. Samples collected Inspectors	508 10,284	725 8,729	1.66 33.91	2.37 28.53	1.66 33.91	2.37 28.53
Salaries Cost of transportation	\$2,200.00 60.61	\$2,200.00	\$7.19 .20	\$7.19	\$3.59 .10	\$3.59

Outline of annual and average daily work of the health department of the District of Columbia, with cost, during the fiscal year 1917, with corresponding figures for the preceding year (based on 306 working days)—Continued.

VII. CONTAGIOUS-DISEASE SERVICE.

Cases reported,	Fiscal	year.	Avera; da		Daily a per ins	
	1916	1917	1916	1917	1916	1917
Anterior poliomye'itis. Epidemic cerebrospinal meningitis Chickenpox Diphtheria Leprosy	7 7 1,044 868	37 20 969 623	0.02 .02 2.8 2.4	0.10 .05 2.7 1.7	0.003 .006 .93 .8	0.02 .01 .59
Measles Pellagra Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	2,450 19 478	3,533 14 490 6 984 292 2,125	6.7 .05 1.3 .02 2.8 1.0 3.1	9.7 .4 1.3 .02 2.7 .8 5.8	2. 2 . 02 . 43 . 006 . 98 . 3 1. 3	2.0 .00 .29 .00 .57

A. GENERAL SUPERVISION, PLACARDING, RECORDING, ETc.

Cost (exclusive of cost of service rendered by sanitary inspectors): 1 chief inspector (363 days)	\$1 825 50	
1 chief inspector (363 days). 1 c'erk (175 days). 6 inspect rs (1,364 days).	496, 50	
1 watchman (3½ days).	7.00	
Total (1,905) days)	8,055.25	
Total (1,9054 days). Incidentals, printing, supplies, etc. (approximate). Cost of transportation.	2,980.01 446.55	
Total		

B. SMALLPOX HOSPITAL.

1,584.16

ratients cared for	. 6	
Hospital open, days	58	
Hospital open, days Service rendered, patient days.	. 58 . 73	
Cost:		
1 matron (330 days).	\$586, 50	
2 Hurses (100 days)	250.00	
1 janit or (160 days)	104.50	
2 laborers (22 days)	33,00	
Total (612 days)	974.00	
in dentals, supplies, tuel, etc. (approximate)	. 898. 27	
Incidentals, supplies, fuel, etc. (approximate). Total.		1,872.27

C. QUARANTINE STATION.

Inmates cared for . Days quarantine station open. Service rendered, immate days	
Cost:	
1 matron (341 days).	\$608,00
2 janitors (173 days). 2 laborers (6 days).	131.50
Ziabolers (o days)	9, 00
Total (577 days)	891, 00
Incidentals, supplies, fuel, etc. (approximate)	693.16

D. LEPER HOSPITAL.

Nurse (365 days). Matron (365 days). 2 laberers (45 days). Watchman (433 days).	67, 50 87, 75
Total (818§ days). Incidentals.	1, 175. 25 749. 44

1,924.69

Outline of annual and average daily work of the health department of the District of Columbia, with cost, during the fiscal year 1917, with corresponding figures for the preceding year (based on 306 working days)—Continued. E. AMBULANCE SERVICE.

Miner centagious diseases:
Patients transported....

	• • • • • • • • • • • • • • • • • • • •	····· <u>-</u>	238	
Cost: 2 ambulance drivers (384 days) 1 stableman (356 days)	• • • • • • • • • • • • • • • • • • • •		\$768.00 266.50	
Total (740 days) Incidentals, forage, shocing, etc. (approximate)		1,	034, 50 742, 20	
Total				1,776.70
Total cost, contagious disease service				18, 639, 64
VIII. DISINFECTING SER	VICE.			•
Premises disinfected Artieles disinfected at disinfecting station.		·····	1,794 1,486	
Cost: 3 inspectors (735 days). 1 disinfector— (305 days), at \$05 per month.			780.00	
(365 days), at \$65 per month. (318 days), at \$60 per month. I stableman (356 days), at 75 cents per day. I watchman (3½ days), at \$2 per day.			686, 00 266, 50 7, 00	
Tetal (1.8074 days) Incidentals, disinfectants, forage shoeing, etc. (approximate)		776.50 638.51	
Total				5, 415. 01
IX. BACTERIOLOGICAL LAB				
pecimens examined. Pays service rendered by employees			$14,885$ $1,531\frac{1}{2}$	
Cost: 3 bacteric legists (3974 days). 1 assistant bacteriolegist (365 days). 1 inspectr (365 days). 1 skilled laberer (365 days). 1 laberer (365 days). 1 laberer (39 days).			539. 50 200. 00 000. 00 720. 00	
			78.00	
Tetal (1.531½ davs) Incidentals, repairs to apparatus, etc. (approximate)			78. 00 537. 50 485. 28	
Tetal (1.531½ days). Incidentals, repairs to apparatus, etc. (approximate) Grand total. Note.—The services of the bacteri logist, which are paid for in fir the contagious disease service are entered as an item of or	from the ap	5,	78. 00 .537. 50	6,022.78
Tetal (1.531½ days) Incidentals, repairs to apparatus, etc. (approximate) Grand total. Note.—The services of the bacteri slogist, which are naid for in firth contaginus disease service are entered as an item of corical laboratory." X. PUBLIC CREMATORIUM	from the ap	propria- Bacterio-	78. 00 537. 50 485. 28	6,022.78
Tetal (1.531½ days) Incidentals, repairs to apparatus, etc. (approximate) Grand total Nore.—The services of the bacteri logist, which are paid for the contact out discusses service are entered as an item of ceftcal laboratory." X. PUBLIC CREMATORIU 30dies burned (adults, 112; infants, 181; stillborn, 257) Days crematory was in operation.	from the ap cost under "I	propria- Bacterio-	78. 00 537. 50 485. 28	6,022.78
Tetal (1.531½ days). Incidentals, repairs to apparatus, etc. (approximate). Grand total. Note.—The services of the bacteri dorist, which are paid for in first the contagious disease service are entered as an item of orical laboratory. X. PUBLIC CREMATORIUM Bodies burned (adults, 112; infants, 181; stillborn, 257). Days crematory was in operation.	from the appost under "I	propria- Bacterio-	78. 00 537. 50 485. 28 550 110	6,022.78
Tetal (1.531) days). Incidentals, repairs to apparatus, etc. (approximate). Grand total. Nore.—The services of the bacteri logist, which are paid for inf r the contact us disease service are entered as an item of cogical laboratory. X. PUBLIC CREMATORIU. Bodies burned (adults, 112: infants, 181; stillborn, 257). Days erematory was in operation. Cost: 1 supervisery inspector (363 days). 1 superintendent (320 days).	from the ap cost under "I M.	propria- pro	78. 00 537. 50 485. 28 550 110	6,022.78
Tetal (1.53½ days). Incidentals, repairs to apparatus, etc. (approximate)	from the appost under "I	5, propria-	78, 00 537, 50 485, 28 550 110 5181, 50 054, 75 236, 25 394, 64 630, 89	6,022.78
Tetal (1.531) days). Grand total Grand total Note.—The services of the hacteri dorist, which are naid fair in fir the contaginus disease service are entered as an item of opical laboratory." X. PUBLIC CREMATORIUM docides burned (adults, 112; infants, 181; stillborn, 257). Says crematory was in operation. Tetal (320 days). 1 supervis-ry inspector (363 days). 1 superintendent (320 days). Tetal (383 days). Incidentals, kerosene, etc. (approximate). Tetal Tetal Tetal Tensitors at private expense (38). Fees collected for cremation at private expense.	from the appost under "I	5, propria- Bacterio- 1, 1,	78, 00 537, 50 485, 28 550 110 5181, 50 054, 75 236, 25 394, 64	
Tetal (1.531) days). Grand total Grand total Note.—The services of the hacteri docist, which are naid fair in f the contactins disease service are entered as an item of opical laboratory." X. PUBLIC CREMATORIUM docises burned (adults, 112; infants, 181; stillborn, 257). Says crematory was in operation. Set: 1 supervis-ry inspector (363 days). 1 supervis-ry inspector (363 days). 1 red (383 days). Tetal (383 days). Incidentals, kerosene, etc. (approximate). Tetal Tetal Tensitors at private expense (38). Fees collected for cremation at private expense. Net cost of operation.	from the appost under "I	5, propria- Bacterio- 1, 1,	78, 00 537, 50 485, 28 550 110 5181, 50 054, 75 236, 25 394, 64 630, 89	6,022.78 655.89
Tetal (1.531) days). Grand total Grand total Note.—The services of the hacteri dorist, which are naid fair in fir the contaginus disease service are entered as an item of opical laboratory." X. PUBLIC CREMATORIUM docides burned (adults, 112; infants, 181; stillborn, 257). Says crematory was in operation. Tetal (320 days). 1 supervis-ry inspector (363 days). 1 superintendent (320 days). Tetal (383 days). Incidentals, kerosene, etc. (approximate). Tetal Tetal Tetal Tensitors at private expense (38). Fees collected for cremation at private expense.	from the appost under "I	5, propria- Bacterio- 1, 1,	78, 00 537, 50 485, 28 550 110 5181, 50 054, 75 236, 25 394, 64 630, 89	
Tetal (1.53½ days). Incidentals, repairs to apparatus, etc. (approximate) Grand total Note.—The services of the hacteri dorist, which are naid for inf it the contact into disease service are entered as an item of original aboratory. X. PUBLIC CREMATORIUM and the services are entered as an item of contact into the services are entered as an item of contact in the service are entered as an item of contact in form of the services are entered as an item of contact in form of the services are entered as an item of contact in form of the services are entered as an item of contact in form of the services are entered as an item of contact in form of the services are entered as an item of contact in the services are entered as an item o	from the appost under "I	5, propria- Bacterio- 1, 1,	78, 00 537, 50 485, 28 550 110 5181, 50 054, 75 236, 25 394, 64 630, 89 975, 00	
Tetal (1.54½ days). Incidentals, repairs to apparatus, etc. (approximate) Grand total Note.—The services of the bacteri dorist, which are naid for inferior to contact into disease service are entered as an inferior for the contact into disease service are entered as an inferior or core laboratory." X. PUBLIC CREMATORIUM Bodies burned (adults, 112; infants, 181; stillborn, 257). Days crematory was in operation. Cost: 1 supervis-ry inspector (363 days). 1 supervis-ry inspector (363 days). 1 superint netent (320 days). Tetal (383 days). Incidentals, kerosene, etc. (approximate). Tetal Tenations at private expense (38). Fees collected for cremation at private expense. Net cost of operation.	from the appost under "I	5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5	78, 00 537, 50 485, 28 550 110 5181, 50 054, 75 236, 25 394, 64 630, 89 975, 00	655, 89
Tetal (1.542) days). Incidentals, repairs to apparatus, etc. (approximate) Grand total NOTE.—The services of the bacteri dogist, which are naid for it if the contact on the service are entered as an item of cogical laboratory." X. PUBLIC CREMATORIU. Bodies burned (adults, 112; infants, 181; stillborn, 257) Days crematory was in operation. Cost: 1 supervis-ry inspector (363 days) 1 superintendent (320 days) Tetal (383 days) Incidentals, kerosene, etc. (approximate) Tetal Cremations at private expense (38). Fees collected for cremation at private expense Net cost of operation.	from the appost under "F	5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5	550 110 5181.50 054.75 236.25 394.64 630.89 975.00	655, 89 average.

HOSPITALS AND CEMETERIES.

List of private hospitals and asylums in the District of Columbia licensed to June 30, 1917, showing location and date licensed.

HOSPITALS FOR HUMAN BEINGS.

Name.	Location.	Date licensed.
Jane B. Silvester Sanatorium Garfield Mem rial Hospital Ge rget wm University Hospital Sibley Memorial Hospital Episcopal Eye, Ear, and Throat Hospital. Nati nal H meopathic H spital. Washington Eye, Ear, and Throat Hospital Lali Mangaret J. Thompson and Alice M. Prentiss.	Tenth Street and Florida Avenue NW Thirty-fifth and N Streets NW North Capit 1 and Pierce Streets NW 1147 Fifteenth Street. Thirteenth and W Streets. N and Kirby Streets. 4 Iowa Circle	Feb. 18,191 Mar. 1,191 Mar. 7,191 Oct. 4,191 Sept. 8,191 July 6,191 June 14,191 Aug. 27,191
Washington Sanitarium Hospital Capital City Sanitarium	1252 Sixth Street SW	July 8, 191 Nov. 5, 191

HOSPITALS FOR ANIMALS.

C. B. Robinson	222 C Street NW	Dec.	6,1909
Cecil French	Twentieth Street and Park Road NW	Feb.	8, 1910
J. P. Turner	916 O Street NW	Feb.	18,1910
D. E. Buckingham	2115 Fourteenth Street NW	Mar.	25, 1910
Reid R. Ashworth	36 New York Avenue, NW	July	7, 1916
Bosley & Weeks	309 Sixth Street NW	June	23, 1910
Theo. Schondau	20 Decatur Street NE	Oct.	25, 1911
John P. Keifer	2°30 Twelfth Street NE	June	14, 1913
W. P. Collins	2130 P Street NW (rear)	Mar.	7, 1914
Reid R. Ashworth	1226-1228 North Capitol Street	June	30, 1917

ASYLUMS FOR HUMAN BEINGS.

Florence Crittenden Home	218 Third Street NW	Mar. 25, 1910
Home for Incurables		July 19, 1910
	see nd NW.	
Children's Country Home	Grant Road NW	Do.
St. Vincent's Orphan Asylum	Edgewood, D. C	Do.
Masonic and Eastern Star Home	Takoma, D. C	Fcb. 24, 1911
St. Ann's Infant Asylum	2300 K Street NW	Do.
St. Joseph's Male Orphan Asylum	924 H Street NW	Mar. 6, 1911
Epiphany Church Home	1221 Massachusetts Avenue NW	Mar. 23, 1911
Edes Home	2929 N Street NW	Mar. 25, 1911
Woman's Christian Association	1719 Thirteenth Street NW	Mar. 29, 1911
Methodist Home	601 M Street NW	Apr. 12, 1911
Presbyterian Home	1420 M Street NW	May 13, 1911

List of cemeteries.

	List of cemeteries.	
Addison Chapel, Adas Israel, Adas Israel, Above Sholom. Bantist. Battle Ground.¹ Blue Plains.² Christian.¹ Congressional. Elesavetgrad Cemetery Association. Georgetown Convent. Glenwood. Government Hospital for the In-	Green Vale. Harm 'ny. Hillsdale. Hily Rood. J n's Chapel. Macabelia. Macedonia. Mothodist. Tennallytown. My n'e's. Munt Olivet. Wunt St. Sepulchre, Franciscan Cemetery. Mount Zion.	National Capital Hebrew Asso ciation. Oak Hill. Payne's. Potters' Field. Prospect Hill. Rock Creek. St. Albans'. St. Mary's. Talmud Torah. United States Soldiers' Home. Visitation Convent. Washington Hebrew.
sane.		Woodlawn.

Crematories.

J. William Lee's.

District of Columbia public crematory.

¹ No interments during the year.

 $_{\rm AVERAGE}$ Grades of Milk Distributed in the District of Columbia During the $_{\rm YEAR}$ Ending June 30, 1917, Arranged According to Names of Distributors.

For a statement of the method of determining these grades see United States Public Health Reports, volume 28, No. 8, February 21, 1913.
A perfect grade (100) is made up as follows:

A perfect grade (100) is made up as rous.	
Dairy farms on which milk was produced; equipment and methods. Dairy cattle on farms on which milk was produced; health and cleanliness Dairy from which milk is distributed to consumers; equipment and methods. Nutrititive value of milk as determined by chemical analyses. Wholesomeness, cleanness, and keeping qualities, as determined by bacteriological analyses.	163 163 163 163 3 33
m - 1	100

Name of dealer.	Dealer's description of class of milk.	Health office grade.
Alden, H. L.	Pasteurized milk	68, 98
Alsop, B. F.	Milk	75, 51
Auth Brothers	do	85, 82
Bassford, M. I	do	80, 53
Payne, Thomas	do	71.75
Black, H. L., & Son	Pasteurized milk	73, 81
Do		79, 02
Blundon, F. A.		87. 58
Bowles, J. J.	Pasteurized milk	66, 58
1)0		70, 70
Boyle, J. & C.		70, 19
Brown, A. J.	do	81, 48
Carter, J. J.	d0	1 67, 21
Castle, J. W	do	65. 21
Cudmore, P. A.	do	60, 70
Dade, C. G., & Co	Pasteurized milk	57. 79
D ₀	Special milk	76.05
Pe Argo, Peter	Milk	77.16
Porr, J. V. & George.	do	81.05
rstes, J. W	Pasteurized milk	78. 42
Gormley, P. F.	Milk	75. 30
Formley, P. F. Gregg, J. W.	Pasteurized milk	81.09
Haight, A. R.	Pure milk	81.65
Healey, Thomas	Milk	68.42
Heltin, M. C.	Pure milk	68.33
Heine, Fred. W	Milk	80. 58
Ifill, C, T	do	76.61
Horner, C. V	do	71. 23
Horrigan, Albert	Special milk	69.79
Hoyle, Robert	Milk	1 81.50
Hutchinson, B. T	Pure milk	1 88. 48
Johnson, Pavid	Milk	81.00
Judd & Hodges	Quality milk	88. 71
Keele, J. M	Milk	77.86
Alplinger, W. B.	do	1 83.67
Landon, J. S.	do	79. 50
Leapley, C. E. Malone, W. L.	Pure milk	78.8
Malone, W. L.	Milk	81.0
Plantey, Juillus	(10	61.7
Markham, Edward	do	79.6
Maynew, L. E.	do	77.0
Mulligan, S. C.	do	73. 85
Murphy, J. W.	do	70. 4
		1 84. 2
Myers, J. W.	Milk	82.8
		1 66.3
		67. 0
- Josef, G. M	Posteurized muk	87.3
		87.8
		97. 9
		83. 0.
		75. 0
Ruppert, J. H.	do	80.0
Shaun M. R.	Pasteurized milk	65. S 63. 0
Selicman, W. R. Shawa, M. L. Shalties, Herman Shumate G. M.	Tuberculin-tested milk Pasteurized milk	85.4
Shumate, G. H	Pasteurized milk	00.4

 $^{^{1}\}mathrm{Figures}$ represent only a portion of the year. Omissions due to insufficient data in the Health Department to fairly compute a grade, or the firm started in business after the beginning of the year.

Average Grades of Milk Distributed in the District of Columbia During the Year Ending June 30, 1917—Continued.

Name of dealer.	Dealer's description of class of milk.	Health office grade.
Simpson, W. A	. Pasteurized milk	74.7
Soper, R. F	Milk	84.1
Storm & Sherwood	. Pasteurized milk	81.7
Do	Famous special milk	1 80.6
Tanner, A. T	. Pasteurized milk	49.4
Tenley, A. C.	. Milk	84.8
Thompson, Corbin	. Pasteurized milk	71. 2
Do	Special raw milk	68.4
Do	Woodbridge milk	64.7
Thompson Sisters	Pasteurized in bottle	73. 5 86. 3
Do	Special milk	80.0
Wahler Bros	Mille	1 84. 7
Walker Gordon Laboratory	Table milk	97.9
Welker, W. E.	Pure milk	83. 1
Wise Bros	Pasteurized milk	82. 4
Do	Pasteurized special milk	81.9
Do	Special raw milk	86.1

 $^{^1}$ Figures represent only a portion of the year. C missions due to insufficient data in the Health Department to fairly compute a grade, or the firm started in business after the beginning of the year.

APPENDIX G.

LIST OF PHYSICIANS ENTITLED TO PRACTICE MEDICINE IN THE DISTRICT OF COLUMBIA SEPTEMBER 1, 1917.

Abbet, Truman. Abbot, Griffith E. Abernethy, Eric A. Acker, George N. Adams, Jesse Lee. Adams, Jesse Lee.
Adams, Roy D.
Adams, Samuel S.
Ainsworth, F. C.
Alderman, Zenas W.
Alexander, Rose.
Alleger, Walter W.
Alleman, Albert. Allenan, Albert.
Allen, Chas. Alexander.
Allen, Charles L.
Allen, Charles W.
Allen, Elighah H.
Allen, Elizara B.
Allen, H. Jerome.
Allen, Jannes H.
Allen, John.
Amnerman Charles C. Amery addites 14.
Milen, John.
Ammerman, Charles C.
Anderson, C. T. G.
Anderson, Joseph W.
Anderson, Joseph W.
Anderson, U. Grant.
Arbeely, A. J.
Armold, John S.
Arnider, Jullius Leo.
Arthur, Wm. H., U.S. A.
Arthur, S. J.
Arthur, S. J.
Ashorn, P. M., U.S. A.
Ashord, Balley K.
Ashord, Francis A.
Ashord, Francis A.
Ashlord, Hallon,
Alkinson, Francis V. Atkinson, Francis V. Atkinson, John F. Atkinson, Wade H. Atwell, John R. Avery, Frederick S. Ayres, Wm. W. Babbitt, George E. Babbitt, Zeno B. Bacas, Henry. Bacon, A. Maynard. Bacon, Robert B. Baggett, John B. Bailey, Emerson S. Bailey, Grafton D. P. Bailey, Henry L.
Bailey, Henry L.
Bailey, Min. O.
Balan, 'eneea B.
Baker, Frank.
Baker, Frank.
Baker, Frank.
Baker, Frank.
Baker, Heigh Y.
Baker, John W.
Baker, John W.
Baker, William T.
Baldwin, Machy.
Baldwin, Machy.
Baldwin, Machy.
Baldwin, Machy.
Baldwin, Machy.
Barber, James M.
Barber, James M.
Barber, James M.
Barbour, Frank A.
Barber, J. Barbour, Frank A.
Barrer, J. S.
Barrer, S.
Barrer, S. Bailey, Henry L. Barger, A. S. Barger, G. J. P. Barker, Howard W.

Barnes, Noble P.
Barnes, Wm. M.
Barnesby, Walter R.
Barnett, P. M.
Barrie, Gernt S.
Barrett, P. M.
Barrie, Gernt Barrie, Gernt Barrie, Gernt Barrie, Gernt Barrie, Edmund.
Barry, John P.
Barstow, Edward C.
Barstow, Kate D.
Barton, Wilfred M.
Bartsch-Dunne, Anna.
Bastian, J. W. Barton, Wilfred M.
Barttesh-Dunne, Anna.
Bartsch-Dunne, Anna.
Bastian, J. W.
Battle, I ewis J.
Battle, I ewis J.
Battle, San.uel L.
Bayly, Rozier C.
Bayly, Rozier C.
Bayly, Rozier C.
Bayly, Rozier C.
Beall, thas M.
Beaman, Carroll J.
Beattle, Wray.
Beattly, Jouis Kelley.
Beattly, Jouis Kelley.
Beattly, Jouis Kelley.
Beattly, Jouis Kelley.
Beetle, George M.
Beckley, F. R.
Beckley, F. R.
Beeche, William B.
Bechrend, Adajah.
Behrend, Adajah.
Behrend, Edwin B.
Behrend, Edwin B.
Behrend, Henry, U. S. A.
Bennett, Harrison M.
Bennett, Maitland C.
Bennett, Kobert A.
Bennett, Waitland C.
Bennett, Kobert A.
Bennett, William W.
Beresford, Galsworthy G.
Berrstein, Hymon.
Bevard, William A.
Biggs, Joseph R.
Billard, Chas. Lewis.
Billard, Charles W.
Birdsall, Gregg Custis.
Birmingham, H. P.,
U. S. A.
Briney, Edith S. Birdsall, Gregg Custis.
Birmingham, H. P.,
U.S. A.
Birmwell, Daniel T.
Bisney, Edith S.
Birtwell, Daniel T.
Bishop, H. A.
Bogan, Fred. Macon.
Bogan, Lasel K.
Bogan, Jasel K.

Bogle, John C. Bogle, Kate B. Boomhower-Guibord, Alberta S. Borden, Dan L. Borden, Wm.C.,U.S.A. Borden, Wan.C., U. S. A.
Boss, Rufus D.
Bost, Thomas C.
Boswell, Archie W.
Boteler, William C.
Bowen, William S.
Bowers, John F.
Bowker, Chas. H.
Boyd, Carl B.
Boyd, Carl B.
Boyle, Cornelius B.
Boyle, Cornelius B.
Braden, Francis W.
Bradfield, Jeflerson D.
Bradley, Geo, P., U. S. N.
Bradley, Jeter C.
Brady, Zadoc M.
Brady, Zadoc M.
Braday, George D.
Brady, Zadoc M.
Brazan, George D. Brady, Zadoc M.
Bragan, George D.
Braisted, Wm. C., U. S. N.
Brandenburg, W. H. R.
Brants, Wm. E.
Branson, Joseph H.
Breekentidge, Seott D.
Brennan, John F.
Branic, Gilmer Brenizer, Gilmer. Brent, Clarence E. Brewer, Isaac W. Brewer, Gilbert R. Brick, Geo. J. Brieken, Saeks. Bridger, James D. Briggs, John D. Briscoe, John P. Briscoe, John P.
Briscoe, John P.
Bronson, Charles E.
Bronson, Charles E.
Brooks, John Doshir.
Brooks, John Doshir.
Brooks, John Doshir.
Brooks, John Doshir.
Brooks, J. Lester.
Brooks, Phil. B.
Brown, Charles W.
Brown, Charles W.
Brown, Hugh A.
Brown, Mary L.
Brown, Orville J.
Brown, Orville J.
Brown, Robert W.
Brown, Sara Whilfred.
Brown, Rhodrie W.
Browne, Rhodrie W.
Browne, Rhodrie W.
Browne, Rhodrie W. Brown, N. Mayes Brown, Khodrie W. Browning, Andrew J. Brumbaugh, Gaius M. Brummett, Randolph B. Bryan, Joseph H. Bryson, Herbert J. Buchanan, Chas. M. Buchanan, Chas. M. Bunnemeyer, Brand. Burbank, Caryl. Burch, Edward W. Burch, W. Thompson. Burke, Francis E. Burke, Fredk. B. Burke, John W.

Burns, Wm. P. Burritt, Aliee. Burritt, Martha Clark. Burwell, Hartford R. Burwell, Hartford R. Bush, Daniel P. Butler, Arthur R. Butler, Arthur R. Butler, Chas. S., U. S. N. Butler, E. Flagg. Butler, William K. Butterfield, Elmore E. Butz, Abraham D. Byner, Chas. B., U. S. A. Byrne, Walter C. Byrne, William F. Cabaniss, George W. Cabell, J. M., U. S. A. Cabill, James A., Jr. Caldwell, Charles T. Caldwell, Charles T. Caldwell, Harry C. Calhoun, George A. Caver, Geo. M. Calvert, Finley H. Camaller, Franklin A. Camden, Patta. Cameron, Malcolm. Bush, Daniel P Camden, Patta.
Cameron, Malcolm.
Campp, George IT.
Campbell, Charles B.
Cannon, James S.
Cannon, Walter D.
Cardoza, Franeis J.
Carman, Louis D.
Carmichael, Randolph B.
Carmichael, Randolph B.
Carmichael, R. P.
Carpenter, D. N., U. S. N.
Carr, W. Browne.
Carr, William P.
Carrico, J. A. J.
Carroll, James.
Carroll, James.
Carroll, James.
Carter, Durus D.
Carter, F. C., U. S. A.
Carter, William C.
Castell, L. B.
Castell, L. B.
Castell, L. B.
Castell, L. B.
Castell, Claude C.
Chadwick, De Witt C.
Chaims, Geo. S.
Chamberlin, Frank T.
Chancell, P. S.
Chapman, Thomas P.
Cappman, Thomas P. Cameron, Malcolm Chamberlin, Frank T.
Chancellor, P. S.
Chapman, Thomas P.
Chappell, John W.
Chappell, Sidney L.
Childs, Greed W.
Chipman, C. N.
Chisolm, Francis M.
Choate, Rufus.
Christia Arthur Christie, Arthur U.S.A. Christmas, Wm. W. Arthur C., Christmas, Wm. W.
Church, James R.
Clark, Chas, Herman.
Clark, George C.
Clark, James J.
Clark, John Alex.
Clark, Jaliaferro.
Clarke, Wm. Earl, jr.
Clarke, Winfield S.
Clayton, James G.
Clayton, James G.
Clayton, James E.

Clement, A. B. C. Clements, Lyman J. Clemons, Carl Anson. Clifford, John S. Coale, Edith SeVille. Coblentz, Horace B. Coburn, Henry C., jr. Coe, Anton. Cogswell, Frank B.
Coben, Ralph.
Cole, George R. Lee.
Cole, John T. Cole, John T.
Coleman, Horace.
Collender, Geo. R., U.S.A.
Collins, Albert R.
Collins, Charles R.
Collins, George L., U. S.,
P. H. S.
Collins, James C.
Collins, James H.
Collins, John F.
Collins, John F.
Collins, George L., G.
Collins, John F.
Collins, John F.
Collins, John F.
Collins, John Arbur G.

Colwell, Chitord B.
Compton, Arthur G.
Conklin, Coursen B.
Conklin, Rush W.
Conner, William H.
Conrad, Thos. K.
Coustas, John. Constas, John.
Conyngton, Wm.
Cook, Elmore A. A.
Cook, George W.
Cook, Giles B.
Cook, Henry C.
Cook, Rie'ard L.
Cook, Saml. Le Count.
Cooke, Thomas C.
'Cookide, Augustus B.

Cooke, Robert R.
Cooke, Thomas C.
Coolidee, Aug stus B.
Copeland, Edgar B.
Corbin, William E.
Corey, George B.
Corley, Karl C.
Cornist, Mabel.
Coumbe, Arthur G.
Coumbe, Osear H.
Cosins, Sidney C.
Cowden, J. Morrow.
Cowper, Arnold W., U.
S.A.
Cox, Oliver C.
Cox, S. Clifford.
Craig, Albert E.
Craig, Henry K.
Craig, John M.
Crandell, Henry K.
Cram, A.M.
Crandell, Henry N.
Crawford, Chas, B.
Crawford, Chas, B.
Crawford, Chas, B.
Crawford, Chas, B.
Critichton, Maepherson. Grawford, Chas. B.
Crite'ton, Maepherson.
Crittethen, Thomas B.
Croeice'ia, Antonio.
Croo', Harrison.
Crosby, W. D., U. S. A.
Crosson, Henry J. S. A.
Crowe, John W.
Crue', B. Alice.
Cumniskey, Edw. F.
Curriden, George A.
Curtis, Atstin M.
Custis, George W. N.
Custis, J. B. Gregg, Jr.
Custis, Marvin A.
Cuthbert. Middleton F.
Cyarra, Sigmund A.
Dabney, Yarmes
Danfort', Roleriek F.
Daloy, James
Daniols', Uriah J.
Darby, Taylor E.
Darnall, Moses H.
Darra'h, Austin A.
Dabrdson, Edward Y.
Davis, Carl L. ritehton, Maepherson, Davidson, Edward Y. Davis, Carl L. Davis, Carrie C. Davis, Charles A. Davis, Daniel G.

Davis, Dowdol H. Davis, Frank F. Davis, George P. Davis, George W. Davis, I lewellen F. Davis, Wm. T. Dawson, Charles F. Day, Geo. Frank. Day, Geo. Frank.
Dear, Wm. R.
Dearborn, Reuben B.
Dc Carré, Alfred.
Deckard, P. E.
Decker, R. R., U. S. A.
Deeble, Horace M. Deeble, Horace M.
Delaney, Martin D.
De Laney, M.A., U.S.A.
Demarest, Cornelius L.
Denison, Raymond C.
Dennison, Raymond C.
Dennison, Ira W.
Desacs, Paul T., U.S. N.
De Sarissure, R. L.
Devereux, J. Rvan.
De Vries, J. Carlisle.
De Weese, Cornelius.
Dewey, Christian H.
Dickinson, Dwight, U.S.N.

Dickinson, Dwight, IV.
S. N.
Dickinson, Dwight, ir.
Dickson, S. H., U. S. N.
Di lier, Frederick W.
Digges, John H.
Di von, Henry M.
Divon, Taylor B.
Divon, Taylor B.
Divon, Writ, S., U. S. N.
Dobson, Hervic A.
Dobson, Hervic A.
Dobson, William H.
Doban, Patrick V.
Dollman, Clarence M.
Dollard, Henry L., U.S. N.
Donn, Fred'k Y.
Donnally, Harry H.
Dorsev, John S.
Dovglas, James S.
Dovglas, James S.
Dovglas, James S.
Dovling, Geo. B., U. S. N.
Dowling, James C.
Dowling, James C.
Downey, Alice W.
Downey, Alice W.
Downey, Alice W.
Drenford, George
Drennan, Lawrence M.
Drennan, Lawrence M.
Drev, Henry C.
Dubose, George P. Drew, Henry C.
Dubose, George P.
Duehring, Frank E.
Duenner, Robert H., U.

Duening, Rubert H., U.
Duffey, Hugh C.
Duffey, Hugh C.
Duffey, Larence R.
Dugan, C. Larence R.
Dugan, C. Larence R.
Dugan, C. Loundar, McCale IO,
Dunbar, A. W., U. S. N.
Dunbor, John.
Dunnier, Roy F.
Dunn, Henry A.
Dunne, Harold E.
Durfee, R. B.
Dyer, John C.
Dyer, J. F.
Dyen, J. F.
Dynan, Nicholas J.
Eager, J. M., M. H. S.
Eagler, R. A.
Eastham, Granville,
Eaten, William E., U.
S. N.
S. N.

S. N.
Echols, Francis S.
Ecker, Lewis C.
Eckhardt, J. C.
Eddy, Otis S.
Eddie, G. L., U. S. A.
Edmunds, Meade Ran-Edwards, Geo.M., U.S.A. Egbert, Edw. H. Eggleston, George W. Eggleston, James D. Eisenberg, Arthur A.

Eisenberg, J. J.
Eldridge, Watson W., jr.
Elgin, Fisk.
Flein, William F.
Eliot, Johnson.
Elliott, Charles S.
Elliott, Johnson.
Elliott, Gre B.
Fliiott, Henry R.
Elliott, Henry R.
Elliott, M. S., U. S. N.
Ellis, Hannah C.
Ellis, Joseph C.
Ellis, Joseph C. Ellis, Joseph C.
Ellison, Everett M.
Ellyson, Robert M.
Ellyson, Robert M.
Elmore, Bruee, U. S. N.
Emery, O. V.
Emery, W. G.
Emmons, Charles M.
Enelish, Charles H.
Enelish, L. H.
Enelish, Merton A.
Eppard, Geor e I.
Erbach, Amelia.
Erving, Emma L.
Erving, Emma L.
Erving, Emma C.
Esch, Victor H.
Eslin, James T.
Evans, Albort W. Escin, Yaton T.
Evans, Albert W.
Evans, Mirchet R.
Fairl, Emmett A.
Fairly, James M.
Falconer, Bolivar L.
Fales, Ella Roy.
Fales, Warren D.
Farquhar, Charles.
Farquhar, Charles.
Farquhar, Raymond R.
Farwell, Wirey G., U.S. N.
Feather stonhaugh,
Thomas. Thomas.

Ferguson, Charles E. Ferguson, Thomas M. Ferris, N. Sherwood. Ferris, N. Snetwood.
Felilebrown, John P.
Finelt, Erastas M.
Finley, Clara B.
Fishbat, Albert S.
Fishbat, Albert S.
Fisher, Howard.
Fischer, Melville B.
Fischer, Howard.
Fischer, Melville B.
Fischer, Melville B.
Fischer, Melville B.
Fischer, Melville B.
Fisher Melville B.
Fitzsimons P. U. S. N.
Fitzsimons P. U. S. N.
Fitzsimons P. U. S. N.
Flotther, C. H.
Floria, Salvatore.
Flower, G. H.
Folower, Alfred H.
Flynn, James A.
Fooley, Thomas M.
Ford, Roland H.
Ford, Roland H.
Ford, Melliam C.
Forston, Keene R.
Foster, Chas. L.
Foster, Geo. W.
Foster, Romulus A.
Foster, Romulus A.
Fowler, Frnest W.
Fowler, Frnest W.
Fowler, Harry A.
Fowler, Samuel R.
Fowler, William C.
Fox, William L.
Foye, A. Frances.
Fraction, James M.
Francis, Melton A.
Francis, Melton A.
Franshkin, E. T. M.
Franshkin, E. T. M.
Freeman, George F.,
U. S. N.
Freeman, P. L., U. S. A.

French, Leich II.
French, William B.
French, William B.
French, Wim. J.
Frey, J. Fau.
Frisch J. Frey, J. Fau.
Frisch John W.
Frys, Fenry D.
Fry, Samiel.
Fuller, Homer G.
Futeron, Guslavus W.
Glazato, W. Frank,
Gallagher, Matilda J.
Galloway, B. E.
Gannon, Jømes A.
Gapten, Nelson,
Gardner, Joseph N.
Gardner, Joseph B.
Garnett, Alex, G.
Garrison, Fielding II.
Garthwalte, Issae S.
Garn in, Chus. II. Garthwaite, Isaac S.
Garvin, Chas. H.
Garvin, Mary J.
Gaston, W. M., U. S. N.
Gaul, J. S., U. S. A.
Gaver, John W.
Geddings, R. M.
Gehrings, Gustave P.
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St. Clair, Francis A.
Samson, George C.
Sanders, C. H.
Sanderson, Fred. R. sanuerson, Fred. R.
Sappington, Ernest F.
Savage, Linnacus S.
Sawyer, John F.
Sawtelle, Henry F.
Sawtelle, H. W., P. H. S.
Searito, Nicolo.
Schueffer, Edward M.
Schelssohn, Otto W.
Schench, Chas. P. Schench, Chas. P. Schildroth, Henry T.
Schirch, George J.
Schloer, Chas. A.
Schnick, Lawrence M.,
U.S. N.
Schneider, Elwin C.
Schneider, Francis A.
Schoelover, Robert A.
Schreiber, He rry R.
Schreiber, E. R., U.S. N.
Schricher, Walter F.
Schreiber, F. C.
Schunnier, H. T., U. S. A.
Schwart e, E. W.
Scott, James F.
Scott, Sidney L.
Scurloc, Herbert C. Schildroth, Henry T. schwart e, B. W.
scott, James F.
Scott, Sidney L.
Scott, Sidney L.
Scurlocs, Herbert C.
Seabrook, Jesse M.
Seibert, Edward G.
Seit , Roy E.
Selby, John H.
Selhausen, Harry A.
Selinger, Maurice A.
Selman, John P., Jr.
Sel er, Henry H.
Sess'ord, Joseph S. F.
Sewell, Charles A.
Sewell, Richard G.
Shade, Neven B.
Shands, Aurelius R.
Shaw, John R.
Shaw, John R.
Shaw, John R.
Shaw, John R.
Shear, Juliet G.
Sheehal, R., U. S. N.
Sheep, Wm. Lloyd.
Sheehal, R., U. S. N.
Sheep, Wm. Lloyd.
Sheehal, A. Shaw, Shery, John J.
Shoup, Jesse.
Sherwood, M. W.
Sh. Pp, Edward M., U. S. N.
Shery, John J.
Shoup, Jesse.
Shute, Augusta P.
Shute, Daniel K.
Sillvers, H. J.
Sillvers, H. J.
Simmons, Alice M. B.
Simmons, Alice M. B.
Simmons, Aleynard J.
Simmons, Sherod S.
Simonton, Laures J.
Simpson, Sharles A. simmons, Maynard J.
simmons, Sherod S.
simonton, Laurence J.
simpson, Charles A.
simpson, Geo. F.
simpson, Geo. F.
simpson, John C.
sims, William E.
sisco, H. N.
s. finer, J. O., U. S. A.
slattery, John J.
slaughter, B. Rosale.
sloat. J. Irving.
smart, Benjamin H.
smart, Robt., U. S. A.
smth, Arthur C.
smith, C. A.
smith, C. A.
smith, Chas. Gordon.
smith, D. O.
smith, Franst F.
smith, George W.
smith, George W.
smith, George W.

Smith, Hugh M.
Smith, John E.
Smith, John J. H.
Smith, John J. H.
Smith, John J. H.
Smith, John J. H.
Smith, Julia E.
Smith, Jeon J.
Smith, Leon J.
Smith, Leon J.
Smith, Leon J.
Smith, Percy G.
Smith, Percy G.
Smith, Percy G.
Smith, Thomas C.
Smith, Thos. F.
Snow.Carydon G., U.S.A.
Snowden, Arthur A.
Sohon, El abeth.
Sohoon, El abeth.
Sohoon, El abeth.
Sohon, Frederick.
Somerville, John W.
Sommer, Henry Ott.
Sorrell, George R.
Sothoron, Lewin J.
Sothoron, Lemer.
Sohoron, J.
Spencer, J.
Sulire, Stusanna J.
Stalca Stewce, Vincent J.
Stalnaker, Paul R., U.S. N.
Stallow J. C. W. S.
Sta S vuire, Susanna J.
State niewez, Vincent J.
Stata niewez, Vincent J.
Statlnaker, Paul R., U.S.N.
Stanley, A. C., U. S. N.
Stanley, A. C., U. S. N.
Staples, Aubrey H.
Stark, A. N., U. S. A.
Starr, Emma M. C.
Stavely, Albert L.
Stearns, J. Warren.
Stelz, P. H., Jr.
Stephenson, Eugene T.
Stepp, J., U. S. N.
Sterre, Charles F.
Stetzen, Thomas. Stepp, J., U. S. N.
Sterne, Charles F.
Stetne, Charles F.
Stetson, Thomas.
Stevens, Albert H.
Stevens, Albert H.
Stevens, Henry C.
Stewart, H. D. Floyd.
Stewart, John W.
Stewart, William A.
Stiles, George W. Jr.
Stiles, Henry R., U. S. A.
Stilmson, W. G., P. H. S.
Stoddard, Leroy R.
Stoce, Chas. F., U. S. N.
Stone, E. J. S. A.
Stone, Charles G.
Stone, E. P., U. S. N.
Stone, James H.
Stone, John H. U. S. A.
Stoner, John H. U. S. A.
Stoner, John S.
Stoner, John J.
Stroebel, Mary L.
Stromberger, H.
Strauth, James L.
Studler, Oden R. Suddarth, James L. Sudler, Oden R.

Sudler, Thomas. Sullivan, Timothy Joseph. sullivan, TimothyJo sullivan, Robert Y. Sullivan, Robert Y. Sullt, Chas. W. Sunmy, Benn W. Supplee, E. D. Suter, Henderson. Suter, W. Given. Sutherin, John W. Sutliff, Milo H. Sutton, R. N. Swain, Benj. H. Swain, Oliver A. T. SwathyJohn. Frank. Swart, Oliver A. T.
Swart, Oliver A. T.
Swart, Charlett, Lyman B.
Syme, William H.
Talbott, Edw. M., U.S.A.
Talbott, John Allen, jr.
Tappan, Joseph C.
Tasker, Arthur N.
Tastet, David W.
Tayloe, Harry M.
Taylor, Alfred H.
Taylor, Chase.
Taylor, Chase.
Taylor, Lugene A.
Taylor, James E. H.
Taylor, James E. H.
Taylor, Sterling P.
Teelft, Fredenek O.
Terry, Philip R.
Teelft, Fredenek O.
Terry, Philip R.
Thomas, Carrie H.
Thomas, John D.
Thomas, Ada R.
Thomas, John D.
Thomas, Wm. J.
Thompson, Alex. C.
Thompson, Alex. C.
Thompson, Henry P. P.
Thompson, Henry P. P.
Thompson, J. Lawn.
Thompson, William J.
Thompson, Levis B.
Thompson, Levis Titus, Elijah W.
Tobias, Henry W.
Tobin, I ichard Francis.
Tolson, Wm. A.
Tomlin, Timothy H. Tompkins, Edmund L.

Tompkins, George J. Towner, Frank H. Townsend, Jas. G. Townshend, G. D. Trent, Jos. P. Trible, G. B., U.S. N. Trimble, Robt. S. Trow, Walter G. Trow, Walter G. S.
Trow, Walter G. B.
Trudgian, Josha B.
Trudgian, Josha B.
Trudgian, James R.
Tolman James R.
Turner, Molyneaux.
Turton, Wm. E.
Tuttle, A. D., U. S. A.
Twogood, Merton E.
Tyler, Robert B.
Tyler, Robert S.
Tyler, Robert B.
Tyler Vaughan, Geo. T. Vaughan, J. M. Vaughan, W. W. Verbrycke, J. Russell. Vincent, Thomas N. Verbrycke, J. Russell.
Vincent, Thomas N.
Vinciguerra, Michael.
Von Ezdorf, Rudolph H.
Wagner, Henry G.
Wagner, Robert S.
Wagner, Robert S.
Wagner, Robert S.
Wagner, Robert S.
Walker, C. C.
Walker, Lewis A.
Walker, C. C.
Walker, Lewis A.
Walker, Mary E.
Walker, Robert A.
Walker, T., R.
Walker, T., R.
Wall, Joseph S.
Wall, M. C.
Wall, Max.
Wallace, C. Jaquius.
Wallace, C. Jaquius.
Wallsh, Ferdinand C.
Walsh, Fordinand C.
Walsh, Ferdinand C.
Walsh, Ferdinand C.
Walsh, Talph.
Walter, Leroy D.
Walter, William F.
Ward, Samuel A.
Warfield, William A.
Warfing, James H. N.
Warfing, James H. N.
Warner, Carden F.
Warner, John W.
Warner, Richard A.
Warren, Benj. S.

Warren, George W. Warren, Stanley S. Washburn, William S. Washington, Niehard. Waters, Chas. H. Waters, Chas. L. Waters, Chas. L. Watkins, Edgar W. Watkins, Samuel E. Watkins, Sietor E. Watson, Charles L. Watson, Charles L. Watson, James A. Weaver, C. H., U. S. N. Webb, Frank R. Webb, Frank R. Webb, W. D., U. S. A. Webb, W. D., U. S. A. Webster, Lenora P. Wechsler, Benj. B. Weed, Mark D., U. S. A. Weed, Mark D., U. S. A. Washington, Richard. Weed, Mark D., U.S. A. Weiler, Geo. L. Weirich, Samuel T., Weirich, Samuel 'U.S.A.
Weilington, John R.
Weils, Charles A.
Weils, Walter A.
Weils, Wanter A.
Weils, Wm. A., jr.
Wenzer, Wm. H.
Wenzer, Jahert G.
Werber, Gustavus E.
Wertenbaker, Clark I.
West, Charles I.
West, John H.
West, William E.
Westlake, John A. West, "jehard T. West, William E. Westlake, John A. Wetmore, William O. Whaley, A. M., U. S. A. Wharton, John J., jr. Whetley, Charles. Wheeler, A. J. Whipper, Rollin W. White, P. D. White, Charles B. White, Divenport. White, Ellen P. C. White, Ellen P. C. White, S. A., U. S. A. White, S. A., U. S. A. White, D. White, S. A., U. S. A. White, S. White, Charles F. White, S. White, Thympson F. Wese, E. Qobert Willer, James T. Wiley, Clarence C. Wilkinson, Alfred D. Wilkinson, Oseor

Wilkinson, Alfred D. Wilkinson, Osear.

Wilkinson, Walter W. Willis, H. Clay. Willis, John M. Willets, David G. Williams, Alexander W. Williams, Daniel H. Williams, H. J. Williams, J. Buxton, jr. Williams, Feginald O. Williams, Tom A. Williams, Welton C. Williams on J. P. Williams of M. Williams of M. Williams of M. Williams on J. P. Williams of M. Williams o Williamson, L. P., U.S.A. William son, L. P.,
U.S.A.
Williston, Edward D.
Willston, Prentiss.
Wilmer, William H.
Wilson, Edmund C. A.
Wilson, Edmund C. A.
Wilson, Edward C.
Wilson, Lewes D.
Wilson, Lewes D.
Wilson, Lewes D.
Wilson, Wm. H.
Wimberly, Geo, W.
Wingate, D. M.
Winslow, John R.
Wirt, Wm. D.
Wolfe, Edwin P.
Wolfe, Edwin P.
Wood, George W.
Wood, Amos D.
Wood, George W.
Wood, W. N. U.S.A.
Woodward, H. Woods, Edgar L. U.S. N.
Woodward, H. Wells. S. N.
Woodward, H. Wells. S. W.
Woodward, J. Mells. S. Woodward, H. Wells. Wood ward, James S. U. S. N. Woodward, William C. Woollen, L. J. Wooster, Mary L. Wooster, Walter M. Wright, Clarence A. Wright, Clarence A. Wright, Hamilton K. Wright, Wilbur L. Wurdemann, H. V. Wyoth, Marlborough C., U. S. A. Wynkoo, James C. Wynkoo, James C. U. S. A. Wynkoop, James C. Yarnall, John H. Yarrow, Henry C. Yates, Frederick, Young, Clement C. Young, Clifton E. Young, Wm. G. Young, Wm. G. Zierene E. Zimmerman, Charles St. V.

V. Zinkhan, A. M. Zinkhan, Paul H.

APPENDIX H.

VITAL STATISTICS.

September 24, 1917.

Sir: I have the honor to submit herewith my report relative to the vital statistics of the Listrict of Columbia for the calendar year

1916, embodied chiefly in the appended tables.

Population.—The police census for 1915 was 357,749, and an estimate for 1916 based upon this and previous enumerations show a population for the midyear of 359,997, of which 260,854 were white and 99,143 colored. No estimate was attempted with respect to sex distribution, nor according to statistical districts, nor as to street and alley inhabitants.

General mortality.—Deaths from all causes during the calendar year 1916 numbered 6,494, of which 3,953 were white persons and 2,541 colored. The white deaths represent a death rate of 15.15; the colored, a death rate of 25.63. The general rate was 18.04.

Comparative race mortality.—The following statement shows the ratio between the death rates of the white and colored races from certain specified diseases:

Comparative race mortality.

Diseases,	Death rate per 100,000.		Ratio of death rates,	
	White.	Colored.	colored.	
Abdominal tuberculosis.	2, 3	10.1	1 to 4, 39	
Accidents and negligence	67. 7	62.6	1 to .92	
Alcoholism	8.1	7.1	1 to .88	
Arconolism	15.0	38. 4	1 to 2.56	
Bronchitis (all forms)	116.5	160. 4	1 to 1.38	
Cerebral hemorrhage.	110. 5	6.1	1 to 1.58	
Cirrhosis of liver.			1 to 0.00	
Congenital debility.	1.2	5.0	1 to 1, 61	
Convulsions, infantile.	3.1	101.9	1 to 3, 60	
Diarrhea, etc., under 2 years Dysentery	28.3	3.0	1 to 2.73	
Bysentery. Generalized tuberculosis.	1.1	1.0	1 to 2.73	
Morogram	0.4			
Marasmus under one year. Nephritis:	19.6	27. 2	1 to 1.39	
Acute	11.9	44.4	1 to 3, 73	
	146. 1	208.8	1 to 1.43	
"UlCardilla endocarditic mysocarditic	28. 0	79. 6	1 to 2, 84	
Pneumonia (all forms).	117.0	301.6	1 to 2, 58	
	37.9	82.7	1 to 2, 18	
Puemperal eclampsia	4.6	9. 1	1 to 1.98	
Puerperal septicemia. Pulmonary hemorrhese	4. 2	7.1	1 to 1.69	
Pulmonary hemorrhage Rheumatism acute and chaopie	0.7	14.1	1 to 20, 14	
Rheumatism, acute and chronic.	5, 0	5.0	1 to 1,00	
Rielets. Senility	0.4	9.1	1 to 22, 75	
Senility.	00.0	43. 4	1 to 1, 45	
Syphilis (hereditary).	4. 2	19. 2	1 to 4, 57	
Suicides Tubergule:	29. 4	11.0	1 to .37	
Thereulouis	105. 4	374. 2	1 to 3, 55	
Tuberculosis of lungs Typhoid fever	0.6	21 2	1 to 2, 21	
Tyyhot act of longs. Yalvular heart disease Whooping cough	9.6 187.1	21. 2	1 to 2.21 1 to 1.23	

Mortality in relation to age.—The average age at death of all decedents during 1916 was 44 years, 11 months, and 2 days—an increase of 4½ months since 1915. The average age of the white decedents was 49 years, 11 months, and 28 days, and that of the colored 37 years and 11 days. The following table shows the average age of decedents by race and sex during 1915 and 1916 compared:

Average age of decedents, 1915-16.

		Male.			Female.			All.	
Race.	Years.	Months.	Days.	Years.	Months.	Days.	Years.	Months.	Days.
White decedents:									
1915	48	3	16	52		19	50		1
1916	48	7	6	51	9	7	49	11	28
Colored decedents:			1						
1915	35	3	22	37	3	5	36	3	8
1916	36	9	24	37	3	4	37		11
All decedents:				1					
1915	43	4	9	4.5	10	17	44	6	10
1916	44	2	19	45	9	2	44	11	

Mortality with respect to location.—A statement of the healthfulness or unhealthfulness of the various statistical districts, which is ascertained by a comparison of their death rates, can not be given for 1916, because of the absence, as mentioned before, of knowledge of the population of these districts. However, reference to Table 7 of Appendix I shows for each district the total number of deaths, and also the number of deaths from certain diseases, arranged as to race. Further information as to street and alley mortality is to be found in Table 7B.

Infant mortality.—Death rates among infants less than 1 year of age have consistently declined, with occasional yearly variations, since 1901, as shown by the following statement:

Death rates under 1 year, computed in reported births.

		White.			Colored.			Total.	
Year.	Births.	Deaths under 1 year.	Death rate per 1,000 births.	Births.	Deaths under 1 year.	Death rate per 1,000 births.	Births.		Death rate per 1,000 births.
1901–1905 ¹ 1906–1910 ¹ 1911–1915 ¹ 1916	3, 429 4, €32 4, 794 5, 042	519 522 411 413	151 113 86 82	1,980 2,268 2,234 2,216	650 592 424 353	328 261 189 159	5, 409 6, 900 7, 028 7, 258	1,169 1,114 835 766	216 161 119 106

¹ Annual average for 5-year period.

The most prominent causes of infant mortality during 1916, the number of deaths due to each, and the death rates per 1,000 reported births are as enumerated on opposite page:

Deaths from certain diseases peculiar to infants under 1 year of age and death rates per 1,000 reported births.

	W	nite.	Colo	red.	To	tal.
Causes of death.	Deaths.	Death rate per 1,000 births.	Deaths.	Death rate per 1,000 births.	Deaths.	Death rate per 1,000 births.
Accidents and negligence		0.39	3	1.35	5	0. 69
Bronchitis	54	10, 71	15 27	6. 77 12. 18	17 81	2. 3 11. 1
Ongenital debility, marasmus	24	4. 76	5	2. 26	29	3.9
onvulsions	7	1.39	2	.90	9	1. 2
parrheal diseases	67	13. 29	86	38. 81	153	21.0
neumonia	28	5, 55	47	21. 21	75	10.3
rematurity	99	19. 63	82	37.00	181	24.9
Syphilis	8	1.59	14	6.32	22	3.0

Mortality with reference to causes of death.—The following statement shows the number of deaths during 1915 and 1916, separately classified according to certain disease groups and arranged with reference to race and sex. For detailed information concerning the various disease comprised in these groups, the number of deaths from each disease, and other data, reference should be made to the general statistical table No. 1 and its subdivisions in Appendix I.

Mortality as to disease groups, 1915 and 1916, compared.

1	To	tal.	D	Tot	al.
Disease groups.	1915	1916	Disease groups.	1915	1916
General diseases Nervous system	1,659 685	1,646 700	Crgans of locomotion	13 37	1 2
irculatory system	1,094	1, 133	Infancy	341 113	33 12
Digestive system Genito-urinary system	535	540 753	Violence	352 11	36
Puerperal state Skin and cellular tissue	39 23	62	Total	6,505	6, 49

Suicides.—Eighty-eight persons committed suicide during 1916, of whom 77 were white and 11 colored. This exceeds 1915 suicides by only 1. The methods resorted to for self-murder were as follows: Twenty-seven (23 whites and 4 colored) used firearms, 19 (all whites) used illuminating gas, 11 bichloride of mercury, 9 hanging, 5 each used cutting instruments or carbolic acid poison, 3 met death by jumping from high places, 2 by drowning, 2 by arsenic, and 1 each from concentrated lye, hydrocyanic acid, nitric acid, potassium iodide, and chloroform.

As to the age of those who died by suicide, 3 were between 10 and 19 years of age, 23 between 20 and 29 years, 16 between 30 and 39 years, 18 between 40 and 49 years, 19 between 50 and 59 years, 6 between 60 and 69 years, 2 between 70 and 79 years, and 1 over 80 years old. Suicides among married people were 40; unmarried, 32; widowed, 11; and those whose marital relation was unknown, 5.

Suicides whose birthplace was the District numbered 22; 41 were born in other parts of the United States; 11 were of foreign birth, and 14 were of those whose nativity was not ascertained.

Birth rates.—There were 7,258 live births registered during 1916;

5,042 were white babies and 2,216 were colored.

Vital statistics for first half of calendar year 1917.—The following statement shows the morbidity and mortality in the District of Columbia during the first six months of the calendar year 1916, with corresponding figures for the first six months of 1917, of certain reportable and other diseases, together with deaths due to violence. This statement is appended to bring the report as nearly up to date as possible:

Reportable cases of illness and deaths in the District of Columbia during the first half of the calendar year 1917, with the corresponding figures for the first half of the calendar year 1916.

	Case			Dea	ths.		m.	
Causes of death.	repor dise	table ases.	Wh	ite.	Colo	red.	Tot	al.
	1916	1917	1916	1917	1916	1917	1916	1917
External causes; Aceidents and negligence. Homicides. Suicides Natural causes.			75 2 44 1,983	84 10 39 2,042	33 13 7 1,231	36 10 5 1,281	108 15 51 3,214	120 20 44 3,323
Total			2,104	2,175	1,284	1,332	3,388	3,507
Special diseases: Acute anterior poliomyelitis Bronchitis. Chicken pox. Diarrheal diseases under 2 years. 2 years and over. Diphtheria.		691	22 11 15 14	23 14 18 14	24 12 8 6	23 9	23 23 23 20	34 37 27 15
Measles Meningitis, epidemic cerebrospinal Pellagra. Pneumonia. Pulmonary congestion	2,156 5 11	3,047 19 6	2 2 5 217 2	2 6 220 7	1 1 184 2	1 2 4 4 189 2	4 4 6 401 4	409
Tuberculosis (all forms) Rheumatism, acute Scarlet fever Smallpox	309 1	269 3	175 6 5	161 5 5	217 3 1	207	392 9 6	369
Typhoid fever. Whooping cough. All other diseases. External causes, as above.	82 785	65 686	11 5 1,491 121	3 5 1,559 133	6 12 751 53	8 3 815 51	17 17 2,242 174	2,37 18
Total	5,138	5,609	2,104	2,175	1,284	1,332	3,388	3,50

Very respectfully,

A. C. Patterson, M. D., Chief, Bureau of Vital Statistics.

To Wm. C. Woodward, M. D., Health Officer, District of Columbia.

APPENDIX I.

TABLE 1a. Showing doubs (stillbirths excluded) and death rates in the District of Columbia during the calendar year 1916, arranged with reference to rance and sex and classified with reference to causes of death.

					Calen	Calendar year 1916.	1916.						Varia	tion in
							Per-		ths by r	Deaths by race and sex.	sex.	Total		deaths in pres- ent as com- pared with pre-
Cause of death.	To	Total deaths.		Gener	General death rates.		ocentage of each rause		White.	Colc	Colored.	pre- ceding year.		ceding year.
	White.	Col- ored.	АП.	White.	Col- ored.	All.	mor- tality.	Male.	Fe- male.	Male.	Fe- male.		In- erease.	De- crease
I. General diseases.			1 9	90	010	197	00	٤	ı	9	=	64	4	
Typhoid fever. Typhus fever. Relation fever	S.	7	0	0.030	. : :	0.12	90	9	> : :		1	1	` ! !	
Malaria		-	co	.007	.010	800.	940.	-	-		-	2	1	
Smallpox. Measles.	4.	5	9	610.	.020	:	.092	67 6	67.6	2	-	TC 00		-
Scarlet fever Whooning cough	170	24	41	.065	242		.631	40	· ∞	14	10,	19	22	1
Diphtheria and croupnfluon,a (grippe)	7.8	7-14	33	.272	. 414	.311	1.725	36	35	17	24.3	118	4	<u>.</u>
filiary for cr.						:								
Tolera nostras	-		-	-00		.003	015	-				t	-	!
Dysentery	e0	က	9	.011	. 030	.017	.092	1	N	1	7	-		
Yellow fever.					:	:					:	:		
Leprisy .	147	9	11	.019	. 061	.031	.169	8	2	-	2	13		
Other epidemic diseases.	1				<u>:</u>								=	:
Purulent infection and septicemia	15	=	56	.058	Ε.	.072	.400	13	7	0	9	01	1	
Anthrax											:	-		
Rabies	8	5	œ	.012	.050	. 022	. 123	2	-	22		4 454	4	:
Myc sis. Pellagra	00	1	6	.031	010	.025	. 139	6	5	1		16		
Beriberi				:	:	:		:					:	:

Table 1a.—Showing deaths (stillbirths excluded) and death rates in the District of Columbia during the calendar year 1916, arranged with reference to Table 1a.—Continued.

					Calen	Calendar year 1916.	1916.						Variation in	tion ii
							Per-		Deaths by race and sex.	ace and	sex.	Total deaths		leaths in pro ent as com- ared with pr
Cause of death.	Tot	Total deaths.		Gener	General death rates.	rates.	of each		White.	Colo	Colored.	pre- ceding year.		ceding year.
	White.	Col- ored.	All.	White.	Col- ored.	All.	mor- tality.	Male.	Fe- male.	Male.	Fe- male.		In- crease.	Do- crease
I. General diseases—Continued.														
Tuberentosis, acute miliary Tuberen iss, menimed. Tuberent iss, abdominal. Tuberent iss, spirial (Pot's disease). Tuberent iss, spirial (Pot's disease). Tuberent iss of joints (white swelling). Tuberent iss of other orans. Tuberent iss of other orans. Tuberent iss of seammated.	100	15 10 10 4 4 6	20 16 16 10 10 10	.019 .023 .003 .004 .004	. 151 . 101 . 101 . 040 . 040 . 010	. 056 . 004 . 004 . 002 . 002 . 006 . 022	.308 .447 .246 .093 .016 .031	e0rc411.	0.00	12 8 8 2 2 2 6	311 5523	41 81 81 81 81 81 81 81 81 81 81 81 81 81	2 1 1 2	
Syphilis: Acquired Corrental Gonorrheal infection.	911	13	30	.023	.131	.053	. 293 . 462 . 015	1 7 2	14	10	12	27.23	- 23	
Cancer of buceal cavity: L May 2 Lip 3 Month 4 Palate 5 Tongue	6 125	1 1 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	81173	.008	010	.006 .003 .003	. 092 . 031 . 015 . 016 . 123	4 10	2 1 1	1 1 2		∞ m	01110	~
Cancer of— 1. Lore 2. Oesophagas. 3. Stomach. Cancer of intestines.	37 63 31	23 12 12	44 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	.142 .027 .241 .118	.071 .010 .232 .121	.122 .022 .239 .119	.678 .123 1.324 .662	19 7 10 10	18 33 21	3 11 4	4 518	52 72 42	841	* : : : : : : : : : : : : : : : : : : :
Cancer of — Covary 2. Urents 2. Urents Cancer of heast Cancer of heast Cancer of heast	2 49 31 5	121	2022	.008 .118 .019	. 212	.194	. 031 1. 078 . 647 . 077	H 10 0	30 30	4	21	20 14 11 11 11 11 11 11 11 11 11 11 11 11	pel .	

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######################################	25.346	.092 .062 .524 .169 .108 .015 .015 .015
8838888	4. 572	.017 .017 .094 .031 .019 .006 .006 .003
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	7, 101	.030 .020 .121 .010
0.00	3.611	.011 .008 .003 .042 .0027 .003 .009
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- -ର - - ଚରଗରୁର ୦	704	1 1283
0 -174865-014 -1000 50 80 02 0 1151	942	222222222222222222222222222222222222222
1. Christians of the control of the	Total general diseases	Cerebral abscess 61 Menimetris, epidemte ecrebosopinal. Simple 62 Locamior at satisface, spinal cord: 63 Other diseases of the spinal cord: 1 Myellist transverse 2 Paralysis, neltans. 3 Paralysis, neltans. 4 Paralysis, spinal. 5 Paralysis, spinal. 6 Penpidelis, spisale. 6 Poliomyellitis, acute anterfor.
24 4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		වීම මම

TABLE 1a.—Showing deaths (stillbirths excluded) and death rates in the District of Columbia during the calendar year 1916, arranged with reference to causes of death—Continued.

Variation in	Total deaths p	Colored, eeding year.	lo. male, crease, crease,		70 889 457 6 1 1 1 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.02 & & & & & & & & & & & & & & & & & & &	1	2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 5	113 115 685 15	35 40 122
	Deaths by race and sex.		Fo- male.			m 00 13 1	es.	5 11	3	206	31
	Death	White.	Male. m		1 155 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0	2	10,000	2	266	40
. 1916.	Per-	of each cause to total	mor- tality.		. 015 . 015 . 062 . 031 . 031	200.	. 093	. 138 . 216 . 046 . 031 . 015	.108	10.779	2.248
Calendar year 1916.			AII.		. 003 . 001 1. 287 1. 287 . 006 . 008	050	910	025 039 008 006	610	1.944	.406
Calen		General death rates.	Col- ored.		0100	020	010	.030	.020	2.300	.010
		Gener	White.		. 004 1. 165 . 008 . 007	015	610	.012	.019	1.809	.008
		·ċ	VIII.		11 4 66 2 8 5	18 6 18 13	9	9418	7	200	116
		Total deaths.	Col- ored.		159	7 CO 40 10		60 60	2	228	4.07
		Tot	White.		1 440	£ 451 ×	10	11 3	5	472	717
		Cause of death.		II. Diseases of nervous system and organs of special sense—Continued.	Other diseases of the spinal cord—Continued. F. Selevisis, lateral. F. Selevisis, partal. Cerebral hemorrhage. Cerebral hemorrhage. Paralysis, unqualified.	Paresis, of instance. Mental attendation. Epilepsy Contribilisions (nonperpenal), 5 years and over.	Chorea. Neuritis	Other diseases of nervous system: 1. Bran disease, organic 2. Bran tumor, organic 3. Chorea, Huntingous 5. Normenthonia		Total diseases of nervous system and organs of special sense	III. Diseases of circulatory system. Percardits.
						58882			75		77

51		20 1-20 80 EL	86
22.22	45		
731 30 18 154 29 3	1,094	2 22222 2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	841
109 5 6 8 13 13	182	8118 14 000-04-144 re-1	173
119 3 114 13 5 5	194	4 8 4 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	206
219 4 4 10 10 2	311		178
269 183 177 177 1 1	416	21 210 00 41 100111 200	198
11.025 .462 .416 .015 2.756 .354 .031 .031	17.492	2. 83.2 2. 83.2 2. 83.2 4.77 4.77 4.77 6. 6.31 6.	11.626
1.988 .003 .003 .006 .006 .006	3.156	000 000 000 000 000 000 1.50 1.019 002 002 002 002 003 003 003 003 003 003	2.097
2.300 .001 .232 .262 .001 .011	3. 793	333 333 333 333 333 333 333 333 333 33	3.823
00.586 00.586 00.688 00.009 00.009	2.914	and the same of th	1.442
271 273 233 233 233 233 245 253	1,136	22.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	755
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488 22 22 4 153 153 153 153 2	092	22222222222222222222222222222222222222	376
Organie heart dienso. Mighin perdins. Discusse of inferies. I. Anguire. S. Arferies. Embolies and thrombosis. Varfewer vens. Andrenis. Andrenis. Andrenis. Andrenis. Andrenis. Andrenis. Andrenis. Andrenis. Andrenis.	Total diseases of circulatory system	Diseases of nasal fossae Harmfuls, sente. Coldino Direct lis sente Caldiny Caldi	Total diseases of respiratory system
85.22 83.22 87.83 83.23		888 876 876 876 876 876 876 876 876 876	

TABLE 1a.—Showing deaths (stillbirths excluded) and death rates in the District of Columbia during the calendar year 1916, arranged with reference to rate.

					Calen	Calendar year 1916.	. 1916.						Varie	Variation in
							Per-		aths by 1	Deaths by race and sex.	sex.	Total deaths		deaths in pres- ent as com- pared with pre-
Cause of death.		Total deaths.	Š	Gener	General death rates.	rates.	of each cause		White.	Col	Colored.	pre- ceding year.		ceding year.
	White.	Col- ored.	АП.	White.	Col- ored.	All.	mor-	Male.	Fe- male.	Male.	Fe- male.		In- crease.	De- crease.
V. Diseases of digestive system.														
Diseases of mouth and adnexia: 1. Parotiditis. 2. Stomatitis		53	200	0.012		0.008	0.046		-			21-		
Diseases of pharynx: Diseases of pharynx: Diseases of pharynx: Diseases of pharynx:		3:	H 4	.012	0.010	.003	.015		e2					
3. Tonsillectomy.			80			888	.046	- 65 -		·		67-		
Stricture of esophagus.	21	7.6	8 8	58.	. 091	980.	. 462	16	5	4 4	10		. 4	
Other diseases of stomach: 1. Gastritis.		20	34	.054	.202	.094	.524	9 4	00 tc	4-	16	39		
2. Indigestion.		- :	3.5	.012	100	008	.046	٠-:	67.5	1 19	9 :5	101	20	_
Diarrhea, etc., under 2 years. Diarrhea, etc., 2 years and over.	74	27	175	.142	272	178	. 986	22	15	12	15.	28		
ntestinal parasites Dependicitis	25		40	Ξ.	=	Ξ.	919	19	10	6	20	55	=	<u>:</u>
lernia ntestinal obstruction	35	13 2	15 48	.134	 	. 133	. 739	12	28	° ∞	2 10	47		
		-		000	.010	.003	.015	-			-	-		
2. Diverticultis, sigmoid 3. Fecal impaction 4. Intestinal gangrene				100.	.010	90.00	010	'			1			
5. Intestinal tumor 6. Ischio-rectal abscess			. 57	.004	010		0.031	-	- !!	-	1	1 1	C1	•
Atrophy of liver, acute yellow	6	28	1 76	107		.094		50	30	9		51		B

7 Chalettii 7 Charter the Char		9.60.14			25	7				'	67	` ! !		6
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Charlet Hilms & Critical Charlet Hilms & Cri	-	3		110		1				00	<u>:</u>	-		
Chapter the state of the stat	61	C2	- :	Ξ	17 113				1.0	1				145
Charlett Hases express Charlett Hases	6	-550	- :	150	19					9	20 20	7	5	182
Charlette and	61	2001	1 2 1	169	12 237		9		10 10			: : :		281
Comparison of the control of the c	.216	. 015 . 092 . 016	.031	8.315	1.155 9.054	.046 .015 .169	.123	.015	20.01.20.01.01.01.01.01.01.01.01.01.01.01.01.01	.216	.031	.031	. 185	11.595
Charlette and	080	.003 .017 .003	.00s	1,500	0,206	00.003 031 006	.003	.003		680	.014	900		2.092
Combetinitiasis,iring Combetinitiasis,iring Combetinitiasis,iring Combetinitiasis,iring Competinitiasis,iring Competinitiasis C	.030	.010	.010	2, 229	0.444	.020	.020	010.	010.	.081	.030	010	101	2,925
Chalentiniass Chalentiniass Chalentiniass Chalentiniass Chalentiniass Chalentiniass Chalentinias Chalentinias Chalentinia Chalentia Chalentinia Chalentinia Chalentinia Ch	.042	. 00.0 10.0 10.0 10.0 11.0	.008	1.222	0.119	938 448 808	.023		.003 .019	.023	.008	800	90.0	
Competition	11	s 1 5 1 1 8	60 63	540	588	8-11-3	8 1		112	14		7 7	12	753
f (Tubelithiass), in the creating of the cr	- 23	13.11	1	221	44	1 2	1.5		1.0	2 00	3		10	
6 (Time-titionass) Triportitis 2. (Ball cresultis) 2. (Ball cresultis) 3. (Triportitis) 4. Turnor of placers Portionitis Total diseases of algostive system VI. Noncentral diseases of gaulto-urinary system Nephritis, error (Nephritis, error (Nephritis) (Nephritis, error (Nephritis,	11	16 55 1	0101	319	381	100	9		1 10 5	9	8181	2	2	463
111 111 122 123 123 130 130 131 131 132 1330 1330	-	Other 1. 2. 3. 4. Disease		Total diseases of digestive system	Ned	Orbuttal	Disc	Dise	Disease 1.2.2.2.4.	122 Thegmon Scott 128 Uterine hemorrhage (nonpuerperal) 129 Uterine fibroid. 130 Other diseases of luterus:	1. 2. Cysts a	1. Ovarian cyst. 2. Ovarian tumor 132 Other diseases of femile genital organs: 1. Abscess of ovary	2. Abscess of vulva. 3. Pyosalplinx Diseases of the breast (nonpuerperal).	Total nonpuerperal diseases of genito-urinary system.

Table 1a.—Showing deaths (stillbirths excluded) and death rates in the District of Columbia during the calendar year 1916, arranged with reference to ranks of death—Continued.

1						Calen	Calendar year 1916.	r 1916.						Varie	Variation in
								Per-		aths by 1	Deaths by race and sex.	sex.	Total deaths		deaths in vres- ent as com- pared with pre-
	Cause of death.	Tot	Total deaths.	si .	Gener	General death rates.	rates.	centage of each eause		White.	Colc	Colored.	pre- ceding year.		eeding year.
		White.	Col- ored.	All.	White.	Col- ored.	VII.	nor- tality.	Male.	Fe- male.	Male.	Fe- male.		In- crease.	De- crease.
	VII. The puerperal state.														
	Accidents of pregrancy; 2. Ectopic gestation; 2. Ectopic gestation; 3. Programory; 4. Program previa. 2. Passive previa. 3. Program previa. 4. Passive previa. 5. Post-partum homorrhage. 6. Tost-partum homorrhage. 7. Lacertum of pregrant uterus. 8. Rupture of pregrant uterus. 9. Rupture of pregrant uterus. 9. Purcepted pretionitis. 9. Purcepted pretionitis. 9. Purcepted preprintity brevers preprinting brevers. 9. Purcepted preprinting brevers.	22 122-	он инп 4 200	888 88 1114828	0.003 0.007 0.004 0.004 0.004	0.030 .010 .020 .010 .010 .010 .010 .071	0.008 008 008 003 003 003 003	0.046 0.046 0.031 0.047 0.015 0.015 0.015 0.015 0.015		88		« % % % % % % % % % % % % % % % % % % %	1 1 50 10 10 10 10 10 10 10 10 10 10 10 10 10	88888 881 11 4 118	
			32	62	.115	.323	.172	. 955		30		32	39	23	
	VIII. Diseases of skin and cellular tissue.														
	Gangrene:	2 111 2	8 1 1	11123	0.012 .004 .007 .001 .003	0.081	. 003 . 003 . 006 . 006 . 002 . 003 . 003	0.169 .015 .016 .016 .031 .015	2 2 2 2 7	1	1 1	64	2 2 2		1

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m	23	1 5 6 3 1	13	5 21	37	11 200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	341
e .	20		-		-	27%	55
	01		3	1117	-	-14 reware	79
- 8	+	11	2	HX-	10	23.8	81
- =	13		6	=	=	8 88 1 2×11+1 1	117
0.00	. 462	015 015 031 031 031	. 231	.015 .016 .031 .369	. 446	. 046 . 046 . 031 . 031 . 015 . 015 . 015 . 031 . 031	5.112
. 000 . 000 . 000 . 000	. 083	900 900 900 900 900	.042		180.	. 008 . 008 . 008 . 008 . 008 . 003 . 003 . 005 . 006 . 006	. 922
010	. 131	000000000000000000000000000000000000000	040.	090	020.	010 020 272 273 827 827 827 827 827 040 040 070 071	1.351
10.	. 065	000 000 000 000 000 000	. 042	. 000 . 003 . 073 . 004	.092	012 196 196 1979 1979 1979 1979 1979 1979 1	.759
- ===	30	1-21-22	15	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	29	819881 SEFE	332
	13		+	LO .	10	10,5% 0400 1 1	134
* *	17	2 1 6	11	119	24	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	861
15 Orbeities skin and adnewa: Orbeities of skin and adnewa: I Imperigo bullwa: C. Pemphigus C. Pemphigus C. Perpulyings	Total diseases of skin and cellular tissue	IN. Diseases of bones and organs of hermadion. In Neeses, ethmoid. I. Abeces, submandible. S. Empeema. H. Masholdits. Anothomy of the composition of the composi	Total diseases of bones and organs of locomotion.	Congenital malformations. Congenital malformations: 2. Hydrocephalus 3. Microcephalus 4. Partal foramenovale 5. Pyforie stenosis.	Total malformations	Congenital debility icterus, sclerema: 1. Congenital debility, icterus, sclerema: 2. Puerperal celampsia (chiid) 3. Icterus neonaforum 4. Marasmus 5. Prematurity 6. Selerema 1. Ashayaa neonaforum 1. Ashayaa neonaforum 3. Aleferasian neonaforum 5. Aleferasian 6. Meran neonaforum 7. Ombaltis 1. Ashayaa neonaforum 8. Malpresentation 1. Ashayaa neonaforum 1. Ashayaa neonaforum 1. Ashayaa neonaforum 2. Aleferasian 3. Malpresentation 1. Ashayaa neonaforum 3. Malpresentation 1. Ashayaa neonaforum 3. Malpresentation 6. Metern neonaforum 7. Ombaltis	Total early infancy.
<u>s</u>)721	°—□ c 1917—vol.	9.	150		151	
	1 100	_n c 191(K0F)	J				

TABLE 1a.—Showing deaths (stillbirths excluded) and death rates in the District of Columbia during the calendar year 1916, arranged with reference to race and sex and classified with reference to causes of death—Continued.

						Calend	Calendar year 1916.	1916.						Varia	Variation in
								Per-	Dea	Deaths by race and sex.	ace and s	sex.	Total		deaths in pres- ent as com- pared with pre-
	Cause of death.	Tot	Total deaths.		Gener	General death rates.		centage of each cause	Whi	White.	Colored.	red.	pre- ceding year.	cedin	ceding year.
		White.	Col-	All.	White.	Col- ored.	All.	mor- tality.	Male.	Fe- male.	Male.	Fe- male.	,	In- crease.	De- crease
Semility	XII. Old age.	82	3	121	. 209	. 434	.336	1.863	26	52	18	25	113	00	
	XIII. External causes.														
Suicide 5. 1. 5. 5. 1. 5. 1. 5. 1. 5. 1. Suicide	Studide by poison: 2. Bischloride meeury 2. Bischloride meeury 3. Carbolide meeury 4. Lye, concentrated 5. Hydrocynic add 6. Nitre acid 6. Nitre acid 7. Polassium cynide 7. Polassium cynide 7. Richardocom		844	2270	000 000 000 000 000 000 000 000 000 00	. 020 . 010 . 010	900000000000000000000000000000000000000	. 031 . 169 . 077 . 015 . 016	401 111	97	-		- xx x		
	Illiminating gas. Illiming gas. Illiming fas. Prowning Friedrins Intituments Intituments Intituments from high places	SI∞−84∞	4-	2001200	00.00.00.00.00.00.00.00.00.00.00.00.00.	010 040 010 010	005 005 007 014 008	. 139 . 031 . 416 . 077	3 2 - 2 2 2 - 2	4 11-6	- 4-		3,01-8,00	4 400-	
Other 8	Vother means Vother means Vother means Cuther accidental poisoning: Cuther accidental poisoning: 9. Chaple inverser. 9. Chaple inverser.	e	-	4	.0012	.010	.003	. 062		1 2	-		m -		
3. Conflar Burns	3. Opium Conflacration. Burns and scalds.	13	13	26 2 1 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.003	. 131	.002	.031	5	oc	4 -	-6	1672	-	131
	Asphyxlated from food. Asphyxlated in bed. Ammonia gas.	3 1		-010	.004	0.00	200 200 200 200	.031	-	-01				0100	

= 1 -0120 8 00 -0 - 0 4- + 0	14	
- 등 등 및 토니아철도 60 이의 구절도 이다. 이 60	352	
	33	
-2	73	
oı- <u>⊕</u> ∞ oı o o	92	
8월-일구 24품-여유 후 16구 이 - 이 - 이 - 이 - 이 - 이 -	184	
888 1888 1888 1888 1888 1888 1888 1888	5. 636	
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### ### ##############################	1.069	
200 000 000 000 000 000 000 000 000 000	0.997	
TE-분의윤이의 홈크조막에드에에드 크수 TP ©드리드에드 소ㅡㅡㅡ	366	
~ 21-1 2	106	
201-10 02-00 6 1000 1 00 1 0 1 0 1 0 1 0 1 0 1 0 1	260	
Principle of the control of the cont	Total external causes.	XIV. III-defined diseases. III-defined organic diseases
88 88 88 88 88 88 88 88 88 88 88 88 88		187 188

TABE 13.—Showing deaths (stillbirths excluded) and death rates in the District of Columbia during the calendar year 1916, arranged with reference to race and sex and classified with reference to causes of death—Continued.

Course of death. Colored death. Colored death rates Colored deaths							Calen	Calendar year 1916.	. 1916.						Variation in	ion in
Course of death. Col- All. White Col- All. Al									Per-		aths by r	ace and	sex.	Total	deaths in pres- ent as com- pared with pre-	eaths in pres ent as com- ared with pre
No. Color All Color		(ause of death.	Tol	al death	ı.	Gener	ral death	rates.	centage of each cause		nite.	Colo	red.	pre- ceding year.	ceanng	year
Condition Consistence saltbania 0.08 0.015 1 2 2			White.	Col- ored.	All.	White.	Col- ored.	All.	mor- tality.	1	Fe- male.	Male.	Fe- male.		In- crease.	De- crease.
1		NIV. Ill-defined diseases—Continued.														
Characteristics Characteri	Ξ	ar and over)		31-12		±00.	0020	900 900 900 900 900 900 900 900 900 900	. 015 . 031 . 046 . 046	- -	1			1 1 9		
Percyptrolation Percyptrol		otal ill-defined diseases		9	6	.012	09.	.025	. 139	2	1	4	2	=		
Compared diseases Comp		RECAPITULATION.		101	1 040	9 611	101	4 579	95 346	519		320	354			
Page assoc of greater system.		I. General diseases. II. Diseases of nervous system and organs of special sense. Sense. III. Diseases of circulatory system.		# %255 # %255	1, 136		2, 300 3, 793 3, 823	1.944 3.156 2.097					115		:	38
Discusses of forgative control of the control of th			319	230 230 32	540 628 628 628 628 628 628 628 628 628 628		2. 2.29 2. 925 323 1323	1,500 2,092 172 083					3432c	88 88 88 88 88		5
Highermore diseases 2, 541 6, 191 15, 154 25, 639 18, 69 (100, 600) 2, 214 1, 759 1, 310 1, 231 6, 505 18, 60 (100, 600) 2, 214 1, 759 1, 310 1, 231 6, 505 18	> XX		1198 198 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	184 5 4 4 5 4 5 4 5 5 6 5 6 5 6 5 6 5 6 5	332 25 15 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		1.351 1.059 1.059 1.069					E + 67 1 E 4		341 341 352 112 113		23 3
	4		3,953	2,541	6, 191					,} 2,214				6,505		

TYBER 14. Showing deaths (stitlieths excluded) in the District of Columbia during the calculus year 1916, arounged with reference to months, and classes of death.

Jamer	hite. Col	М. F. М	m	1 17 15 4		-			-	o
January. February.	White, Colored. White, Colored. White, Colored. White. Colored. White, Colored.	F. M. F. M. F.	2	1 2 3 17 15 4 12 6 7			2 1 1 1 1		1 1	S - S
ry. March.	dored. White, Cok	М. В. М. В. М.		1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					1 1	2. 1 1 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.
April.	ored. White. Colored.	F. M. F. M. F.	2	333		1 2	2 1 1 2			
May.	White, Colored.	M. F. M. F.	2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		5	-		17 10 16 22
June.	White. Colored	M. F. M. F.	3	8 -1			8	5	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Table 1b.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to months, and causes of death—Continued.

Colored Cause of death. Colored Cause of Ca	-		-	Jan	January.		Feb	February.	-	Ma	March.		7	April.			May.	γ.		-	June.	
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TABLE 1b.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to months, and enuses of death—Continued.

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Clas- sifica- rion	Cause of death.	Total deaths year	Whit	e. C	White. Colored.		hite.	White. Colored.	red.	Whi	ite.	White. Colored.		White. Colored. White. Colored.	Co	lored	IW	ite.	olor	d.	White. Colored.	5	lore	d.
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	 Diseases of nervous system and organs of special sense—Confinued. 																							
74	Other diseases of nervous system: 1. Brain disease, organic 2. Brain tumor	6 41			- ! .	°		- :		-	-		-:-	- ;		- 1 1 1	2				2	- : : : :		:::
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	III. Discases of circulatory system.	The state of the s						1	Ì													<u> </u>	l	
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	IV. Diseases of respiratory system.																							
88	Diseases of mastl fosse. Laryngills, acute. Papilloma of larynx.	27								-										-	-			. : :

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Table 1b.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to months, and causes of death—Continued.

				January.	.X.		Febr	February.			March.	نہ	-	Α,	April.			May.			-	June.	
Clas- sifica- tion	Cause of death.	Total: dealths White. Colored. White. Colored. White. Colored. White. Colored. White. Colored. White. Colored. year.	Whi	Le. C	lored	I. W.	hite.	Color	red.	Whit	.e	olore	. W	hite.	Colo	red.	Whi	te.	olore	d.	hite	C ₀	lore
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115	Other diseases of liver: 1. Biliary listina. 2. Cholevystits. 3. Hepatitis.	211		- 5	- ! ! !			111		111	-	- : : :		-2	5	-						-111	
116 117 118	Disasses of spleen. Pertionitis. Partecettis.	- x m m								-	-					-		-					1
	Total diseases of digestive system	010	10	6	2	2 7	00	4	4	10	10	4	7 12	18	×	×	13	7	5	8 . 17		6	8
	VI. Nonvenereal diseases of genito-urinary system.																						
119 120 121 122 123 123 123	Nophritis, aeuto. Chroute Chroute Other disease of kidneys and adnexa: 1. Absenses of kidneys 2. Hematuria. 2. Hematuria. 3. Aryeonephritis. Disease of bladder: 2. Econion of urine.	25.88 88.00 88.00 11.10 88.00 80 80.00 80.00 80 80 80 80 80 80 80 80 80 80 80 80 8				10 25 12	25 12	10	72 -	228	17.3	141 102	202	171	24	41-	191	16	<u> </u>	1 2	2 9 1 7		7 6

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1. Presured of unclina: 1. Cretinal paragraph and a paragraph	Total nonpuerperal diseases of genito-urinary system.	VII. The purperal state. Accidents of pregnancy: 1. Abortion, spontaneous. 2. Pictopic sestation. 3. Pregnancy. 1. Prognancy. 1. Placenta previa. 1. Placenta previa. 2. Post partium hemorrhage. 3. Rupture of pregnant uterus. 2. Lacertation of perineum. 3. Rupture of pregnant uterus. 4. Lacertation of perineum. 5. Rupture of pregnant uterus. 6. Purperal peritonitis. 7. Purperal hemitosis. 8. Purperal leophritis. 9. Purperal leophritis.	'rotal puerperal state	VIII. Diseases of skin and cellular tissue. 1 Gangrene: 2 Of order
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Table 1b.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arounged with reference to months, and class 1. —Continued.

			Jar	January.		February.	ary.	-	March.			April.	≓.		N	May.			Jume.	
Classifica-	Cause of death.	Total deaths year	White	Total deaths White, Colored, W	ed. WI	tite. C	olored.	Whit	e. Co	lored	Wh	ite. (olore	d. W	hite.	Color	red.	Whit	.e	lored.
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	VIII. Diseases of skin and cellular tissue—Continued.																			
143	Furunculosis. Abscess, acute. 1. Ingoinal. 2. Multiple.	2									21									
	3, Pelvie 4. Perineal 5. Retropertioneal	01-			- : :							: : :-								
145	6. Cellifiths Other diseases of skin and adnexa: 1. Impetigo bullosa 2. Pemphigus	r :::		-	2			-						- : : :						
	3. Ulcer of leg	30		07	1 3 1	-	4	-		21	00	-		-	1				1 : 1	
	IX. Diseases of bones and organs of vocomotion.																			
146	Diseases of hones: 1. Abseess, ethmoid. 2. Abseess, submandible. 3. Empyema.	67																		
147	4, Mastorditis. 5, Ostomyelfils. Arthritis. Amputations.			-	-			-	- : : :		- : : : :	- : : :		-						
2	Under diseases of organs of locomorous	15		-	2			-			100		2	-						
- 477	X. Mulformations.	-					-												-	
051	Congenital malformations: 1. Left pather. 2. Hydrocaphelis. 3. Mercoaphelis. 4. Patent formation ale.		· · · ·		11-	- :- :	-24						-						73.12	

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5. Pyloric stenosis	151 Congenital debility, iterras, selecteria: Congenital debility, iterras, selecteria: Congenital debility 2 Progress debility 2 Congenital debility 3 1 1 1 Congenital debility 4 Congenital debility 5 Congenital debility 5 Congenital debility 6 5 Congenital debility 6 5 Conference auses peculiar to early infancy: Conference auses Conference auses Conference auses Conference auses	Total early infancy332	154 Senility XII. Old age. 121	Suidede by poison: A Asente. 2 2 Reinfolderies 2 3 A Carbolic deficie ded color 3 3 A Carbolic deficie deficie 3 4 A concentration 5 4 A concentration 5 4 A concentration 5 4 A concentration 5 A concentra

TABLE 1b.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to months, and

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TABLE 1b.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to months, and causes of death.

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Clas- sifica-	Cause of death.	Total death: year	S WI	nite.	Colore	Total death. White. Colored. White. Colored. White. Colored. White. Colored. White. Colored. White. Colored.	ite. C	olore	d. W	hite.	Color	.jg	Vhite	Colc	red.	Whit	- o	olored	×	iite.	Color
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Table 1b.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to months, and causes of death—Continued.

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Clas- sifica- tion	Cause of death.	Total deaths year	Wh	ite.	olor	d. M	Thite	White, Colored. White, Colored. White, Colored. White, Colored. White. Colored.	ored.	W	ite.	Color	.pe	Whit	.e.	olore	j.	Thite	. Col	ored		nite.	Colo	red.
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	I. General diseases—Continued.																							
55 57 59 59	Other general diseases: 2. Haemophilia (5 months and over). 2. Haemophilia (6 months and over). 3. Infection, congenital. 4. Purpura hemorrhagida. 4. Purpura hemorrhagida. 1. eda poisoning, chronic. 1. eda poisoning, chronic. Other chronic obisonings.	1001 X	100				2			-							- 				- +			
j	Total general diseases	1,646	34	31	30	22 30	26	× 1	#	9	22	E	22	29	26	31 2	22 23	29 46	30	22	9	3	15	56
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	2. Paralysis, grafians 3. Paralysis, pulbar 4. Paralysis, muscular atrophic	F07-				- : : - - : : : :				: : :			Tit		::::	+++	::::							
	b. Paraphera, space. 6. Dolomyolitis, acute auterior 7. Selerosis, Jacrel 8. Selerosis, multiple	9 1 - 9		- : :										- : :										
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	Total diseases of nervous system and organs of special sense.			:		
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Table 1b.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to months, and causes of death.—Continued.

				July.	August.		Septe	September.	Oct	October.	Nov	November.	Dece	December.
Clas- sifiea- tion	Cause of death.	Total deaths year	White	Colored	Total White. Colored. White. Colored. White. Colored. White. Colored. White. Colored. White. Colored.	ored. V	Vhite.	Colored.	White.	Colored.	White.	Colored.	White.	Colored
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1	IV. Diseases of respiratory system—Continued.													
982	Pulmonary gedema. Pulmonary gangrone Astima. Pulmonary only was a second of the second	100000000000000000000000000000000000000						::T::	1 1	!			::-:	- : : : : : : : : : : : : : : : : : : :
ž,	Other diseased or respiratory system: 1. Procedorfungta 2. Proved mentionia 3. Pulmonary alexees. 5. Stronesis of traction. 5. Stronesis of traction.	116311	1					60				1 2	2	
	Total, diseases of respiratory system	755	5 7	6 9	11 4 14	9	6 5	13 13	11 5	15 12	13 20	12 23	15 19	21 10
	V. Diseases of digestive system.													
96 (Diseases of mouth and adnexa: 1. Parotiditis. 2. Stomatitis.	60 64				::			-		1 !			
36	Diseases of pharynx: 1. Ludwig's angina 2. Pharyngids. 3. Tonsillectony.	*==	1	-										
101	Stricture of oesophagus.	 	1			-	2 1		2	::-		-	-	-
103	Other diseases of stomach: 1. Gastritis 2. Indigestion: 3. Pulmir stomasis	34		1 3		-						-	:	-
105	Dig	175	45.6	22 18	10 12 10 4 2 1	16	9 1	9 1 2	8 :	41 :		2 1	2	7 1
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110 Other diseases of intention restinated 2. Diverticulities, standard 3. Diverticulities 3. Diverticulities 3. Diverticulities 4. Tumor of liver 5. Diverticulities 4. Tumor of liver 5. Diverticulities 5. Divert	Total diseases of digestive system	19 Opported the transfer of general transfer of general transfer of general transfer of the transfer of tr
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TABLE 1b.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to months, and causes of death—Continued.

				July.		Au	August.		Sep	Septemi er.	er.		Octo	October.		ž	November.	ber.		Dee	December.	.i.
Clas- sifica-	Cause of death.	Total deaths year		White. Colored.	red.	White. Colored. White. Colored.	Color	red.	White	e. Cc	lored.	W	White. Colored.	Color	.pq.	White. Colored. White. Colored.	ce.	olored		hite	_C_	ored
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	VI. Nonvenereal diseases of genito-urinary system—Contd.																					
132	Other diseases of female genital organs: 1. Albeess of overy. 2. Albeess of very. 3. Pyeablux. Diseases of the break (nonpureperal).	2 1 12	- 7	::::						: : : :			1		1							
	Total nonpuerperal diseases of genito-urinary system.	753	23	10 18	16 1	17 13	6	13	83	×	12 9	19	4	9	r-	53	15	9	9 33	9	=	14
	VII. The puerperal state.								-													-
134	Aecidents of pregnancy: 1. Abortion, spontaneous. 2. Ectopie gestation. 3. Pregnancy: Puerperal hemoritage. 1. Placenta provia.	10 m m m			-			-		:::::		:::::			7-1111							
981															-				- : : :			:
137	Puerperal peritonitis. Puerperal peritonitis. Puerperal sepsis.	482			-	-				:::	-		65				: :	: : '	: : : : : : : : : : : : : : : : : : : :	:01		
140	Purperal thromosis 3 Puerperal insanity Puerperal diseases of breast	60															- : :		: : :			1111
	Total puerperal state	62		4	2		:	7		41	-		+		2		2	: 1	3	2		
	VIII. Diseases of skin and cellular tissuc.																					
142	Gangrene: 1. Of extremity 2. Soulte.	11		1				- ; ;		-				-	-	-		-:-		1-		

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Table 1b.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to months, and causes of death—Continued.

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Clas- sifica- tion	Total Agath. Cause of death.	lhs w	hite.	Color	ed. W	hite.	Total Total White, Colored.	.pe	Vhite.	Col	ored.	Whit	و. د	lored	. Wh	ite.	olore	d.	Thite	င္ပ	orec
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	Exposure. Total early infancy.	22 15	0	6	3 10	2	ĵ.		2	10	=	12	6	8 4	2	-	5		4		
154	XII. Old age. Senility	2 2	23	00	3 1	#	-	:	3 7	53	8	4	× :		60	67	-	67	2 4		63
155	XIII. External couses. Suicide by poison: Assenic. Assenic	0150555													2 -						
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Table 1b.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to months, and cause of death—Continued.

				July.	-	14.	August.		Sep	September.	er.		Oct	October.			November.	nber		Ε .	есеп	December.	
Clas- sifica- tion	Cause of death.	Total deaths year		Colo	red.	Thite	White. Colored. White. Colored. White. Colored.	.pa	Whit	. Co	lored	=	ite.	Colo	red.	Wh	ite.	Color	.ed.	Whi	te.	White. Colored. White. Colored	d.
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	XIII. External causes—Continued.																						
981	Other external violence: 1. Struck by falling body. 2. Struck by falling by seededtial. 3. Transmittic gangene. 4. Transmittic gangene.	4	1											- : : :					:::-	- ; ; ;			11111
	Total, external causes	336	21	6 9	-	12	6	-	01	x	6 2	10	x l	7.0	2	8	5	2	2	8	9	1-	
	XIV. Ill-defined diseases.																						
188 188 189	III-defined organic diseases. Sudden dealh. II defined, or not specified. I Carbine as shionia. 2 Poutforn. 4 Intantile arropity (i year and over). 5 Marsania (i year and over). 6 Unitropin europity.																						11: 11:11:11
1	Total, ill-defined diseases	6	1				-	-		-:				:	:			:	:	:	:	-	
	RECAPITULATION.																						
	Conveni diseases Diseases of pervous system and organs of special months of the period of system. Disease of irrepulary system. Disease of irrepular or system. The properties system. The properties system.	1,646 1,136 1,55 540 7,53 62 30	34 31 16 16 29 17 5 7 7 7 7 26 21 23 10 14	31 39 16 13 17 12 27 6 27 6 10 18 4 110	22 13 13 25 25 25 25 25 25 25 25 25 25 25 25 25	30 26 13 26 16 15 17 17 17 17 17 17 17 17 17 17 17 17 17	81 112 41 19 19 19 19 19	44 118 128 18 18 18 18	2 1 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	22 31 24 19 9 12 12 18 12 18 18 18 18 18 18 18 18 18 18 18 18 18	22 18 22 19 11 22 12 13 13 13 13 13 13 13 13 13 13 13 13 13	2011 1011 1011	28 28 11 11 11 11 12 11 14	15 17 17 17 17 17 17 17 17 17 17 17 17 17	22 125 12 21 22 22 22 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	8 2 2 2 2 2 2 -	20 20 20 20 20 21 22	30 17 17 17 17 18 19 19	2 0 2 2 - 0 2 -	25 55 55 55 55 55 55 55 55 55 55 55 55 5	# 23.50 x 50	15 16 21 16 11	. 150 88 88 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.

X. Discusses of organs of locomotion X. Malformations X. Malform	1 1 1 1 1 1 1 1 1 1	1222	DIXNO	an a	mm-	1-2-5		2000 10	-x = =	=x	-220	= m ≈1	842-5	**xx	- x 13	1 11-0101	m 10100 0	10 21	- 10 01 01	21 X 21 8	+-0	= 201		
Total deaths from all canses 6,494 174 124 144 104 160 105 97 126 166 116 117 100 165 138 97 85 171 170 95 92 206 154 98 102	6, 494	174	124	144 1	10	90 10	5	126	166	116	117	100	165 1	% %	8 1.6	5.17	1 170	35	9.5	206	154	98	102	
	6, 494 298 248 265 223 282 217 318 182 341 187 360 200	298		848	2	35	22	1 23	282		217		303		18.5	F. 1		18		360		200		
Total, by months	6, 494		946			1	488	!	667	499		499		485			528 . 560	20			56(

TABLE 10.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to ages of develents and classified with reference to race, sex, and causes of deaths.

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Typing to the content disease.		W.	c.	W.	ċ	₩.	5	7.	ပ်	W.	ಲೆ	W.	ಲ		Total by race.
1. Centernal diseases.								M.	M.	M.	Ä.		N.	F. W.	C. All.
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	Other epidemic diseases		1 : : :												1
	Purulent infection and septicemia		2				:	:		:	:		7	-	7
3 2 2 2	Anthrax														
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TABLE 1C.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to ages of decedents and causes of deaths—Continued.

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TABLE 10.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to ages of decedents and causes of deaths—Continued.

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Ankylosto ntestinal Appendic lernia. ntestinal	-255 <u>11</u>	6. Iscophy latid atic celith	1. Biliary 2. Cholec 3. Hepati 4. Tumor Diseases of speritonitis	Tol	Non	rriti uria r di r di	nroli ases	S. R.	2. U	-144	4. P
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Table 1c.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to ages of decedents and classified with reference to race, sex, and causes of deaths—Continued.

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132	2. Ovarian tumor. Other diseases of female genital organs:	:	-	:				:																	:
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TABLE 1c.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to ages of decedents and causes of deaths—Continued.

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Table 1c.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to ages of decedents and classified with reference to race, sex, and causes of deaths—Continued.

		Under	Under 1 year.	1 y	1 year.	2 ye	2 years.	re .	3 years.		-+	4 years.			Total under 5 years.	nnde	er 5 y	ars.	
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TABLE 1C.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to ages of decedents and causes of deaths—Continued.

	5 to 9 years. 10 to 19 years. 20 to 29 years. 30 to 39 years. 40 to 49 years. 50 to 59 years. 60 to 69 years. 70 to 79 years. 80 to 89 years.	. 10to	19 year	s. 20 to	29 yea	rs. 30 tc	39 year	s. 40to	o 49 year	s. 50 t	o 59 y	ears.	30 to 68) year	s. 70 te	79 yea	rs. 80 t	o 89 ye		90 years and over.
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TABLE 10.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to ages of decedents and causes of deaths—Continued.

		5 to 9 years. 10 to 19 years, 20 to 29 years, 30 to 39 years, 40 to 49 years, 50 to 59 years, 60 to 69 years, 70 to 79 years, 80 to 89 years.	year	.s.	010	19 ye	sars.	20 tc	, 29 y	ears	301	to 39	year	rs. 40	to 4	9 yea	rs.5	010	59 y	ears.	60 to	69 3	ears	. 70 t	0 79	year	8.801	68 03	year	s,) ye	er.	nd
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TABLE 10.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to ages of decedents and classified with reference to race, sex, and causes of deaths—Continued.

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1	VI. Nonvenercal discases of genito-urinary system—Contd.	1	1																																	
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	VII. The puerperal state.	1						1				-						-																	-	
	134 Accidents of pregnancy: 1. Abortion, spontaneous.					-						24			-					-		-:									-	-	-	-	-:	

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Percent essention result and recommental r	rpers n an		sal ski	of slace	rases of bones: 2. Abscess, submand 3. Empyema 4. Mastoidits 5. Osteomyelitis hritis.
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Table 10.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to ages of decedents and classified with reference to race, sex, and causes of deaths—Continued.

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Total malformations									:				:			:			:
XI. Early infancy.													_						
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TABLE 1C.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to ages of decedents and cause of deaths—Continued.

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TABLE 1d.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to marital relations and course of death.

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TABLE 1d.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to marital relations and to nativity and classified with reference to race, sex, and causes of death.—Continued.

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Goitre, exopthalmic. Addison's disease. Leukeimia. Anemia.	e	1	2 2 1 1 1 1 3						12::1			· : : -	4			
Other general diseases: 2. Hamophilia (3 months and over) 3. Infection, convential 4. Purpura hemorrhagica. Alcoholsm Lead poisoning, chemic.			3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3						2 1 2	5	1 :: : : : : : : : : : : : : : : : : :	- 2				

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59 Other chronic poisonings Total general diseases	II. Discusses of narrous system and organs of special sense. Cerebral absenses spikomic cerebro-spikomic spikomic cerebro-spikomic spikomic cerebro-spikomic spikomic cerebro-spikomic spikomic	Outer diseases of paragraphs 2. Paralysis, agrians 3. Paralysis, bulbar 4. Paralysis, bulbar 6. Paralysis, muscular atro- phic 7. Paralysis, passic 7. Paralysis, passic 8. Polionyelitis, acute ante-	7. Schools, lateral 1. Schools, lateral 1. Schools, multiple Certification of the control of the	years and over. Journalsions, under 5 years. Jarea. Neuritis. Other diseases of nervous	system: 2. Brain disease, organic. 2. Chorea, Huntingfort's. 4. Hydrocphalus. 5. Neuresthenia. 5. Neuresthenia. 6. Neuresthenia. 6. Neuresthenia. 6. Neuresthenia.	Total diseases of nervous system and organs of special sense
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Table 1d.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to marital relations and to nativity and classified with reference to race, sex, and causes of death—Continued.

25 Cude 1 Search 1 Se	Marital	Marital relations.					Nati	Nativity.		
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M	years and over.	Under 15 years.	915 and over, M. F. M. F. M. F. M. F. M. F. M. F. M. F.	M. F. M.	F. 7	f. F. M.	F. M. F.	M. F. M. F. M. F. M.		F. M.
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Total disease of circulatory 203 87	8	3 6 41	97 185 39 83	12 2 9	5 65 81	34 38 242	38 242 195 149 133	97 64	1 12	1 4
IV. Diseases of respiratory system.									1	1
Diseases of maral fosser	- 1	5	- : :							

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Thyraid gland, removal of, fronditis, acute, (rapulary, (rapulary, (rapulary, (rapulary), (rapulary, (rapulary), (Total diseases of respira- tory system	V. Diseases of digestire system. Diseases of mouth and adnexa: 2. Standitis. 2. Standitis. 2. Estanditis. 3. Talavis sugina. 3. Talavis sugina. 4. Tanditis. 5. Tanditis. 5. Tanditis. 6. T
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Thyroid idend, removed of. Gapillary, Capillary, Capillary, Capillary, Chronic, Chr		V. Discusses of digrative system. Discusses of mouth and adnexa: L. Parolditis. S. Stomatitis. Discusses of purny Taxi. J. Purny gills. T. Discusses of purny gills. T. Discusses of stomatic. T. Torsillists. Stricture of assophagis. Stricture of assophagis. J. Gistrifis. J. Gistrifis. J. Gistrifis. J. John Gistric Under Stomas. J. Farminge, etc., a gents and over. Antiferson of the stomas. Mary foreomistis. Antiferson and over the stomas. Antiferson and over the stomas. Antiferson and over the stomas. Antiferson and over the stomas. Antiferson and over the stomas and over the st
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Table 1d.—Showing deaths (stillboths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to marital relations and to nativity and classified with reference to race, see, and causes of death—Continued.

		And the second of the second	Mai	Marital relations.	ions.			-						Nat	is i	Nativity.	ivity.	ivity.
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Cause of death.	W.	3	W.	1	5	₩.	5	=	ಲ	¥.		C.	W. (<u>;</u>		ن	C. W.
fication No.	Under l5 and years. over.	Under 15 15 and years. over.	Under 15 15 and years. over.	ta pars Under 15 nd years.	Under 15 15 years 15 and years. over. M.	M. F.	Ä.	F. M. F	F. M.	. W.	F. M. F. M.	F. M.	F. M.	[z-	Э.		M. F.	F. M. F. M. F.
	M. F. M. F.	M. F. M. F. M. F. M. F. M. F. M.	M. F. M	F. M.	F. M. F.													
V. Discases of digestive system— Continued.														!				<u> </u>
Other diseases of intestines: 1. Autointoxication, intes-								-			-							
2. Diverticulitis, sigmoid 3. Fecal impaction	:-:		::-									-		-				
4. Intestinal gangrene 5. Intestinal tumor		1					- ::					-	:-					
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113 Hepatic cirrhosis.	± 8	6 3				1 2	2	<u> </u>		· m -	:	13:	7 6			: :	::	7
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2. Cholecystitis	2 6	6	-	20	-		-							2	- 5			1
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117 Peritonitis					6				:			1 2				: :	: 3	

	Total diseases of digestive system	:	: !!	24	25	4 4 7	25	23 55	59 61	15	+ 11	s 32 12 20	59 61 15 4 8 32 12	20	1	-	: [5	9 69	92 29	2	88	45	55	20 1:	15	: 1	21		
	VI. Nonvenereal diseases of genito- urinary system.																-													
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252	Other diseases of kidneys and adnexa:		:	:		-	:			:					-				-											
	cess of kidney		- : :		+	::	::	: :			_	::			::		11	= :		: :	: []		= :		+ :				1 -	÷
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8	Diseases of prostate:	-						-								:	- :	:	-			:		:	:		:	-	:	-
	2. Prostatic adenoma.				+		: :-	+							1	:	:		9	:	. 9	:		-	. 6	2	: :	:0	: :	
	3. Prostatic hypertrophy			•			-	: :			-				: :		: :			: :	27		:	: :	8			:	÷	-:
121	Phlegmon scroti	- :	:	-	:		:	:	:		-		:	-	:	:	:	-	:		:	:	:	-	÷	:	-	÷	÷	:
20	Uterine hemorrhage (nonpuer-				_		- :	-:		:	-	:	:		- :	-:	:	-	-:	-:	:	:	:	-	÷	<u>:</u> ,	.:	:		-
62	Fibroid.	:	9	:	4		i	:			1	1	:	:		:	:	:	m :	· ·	:	:	:		-	<u>:</u>		:	4	-
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3	2. Pelvic abscess.				-	:	Ţ	-	-	<u>:</u>	5			-		:	:		27	:		:	·	·-		÷	:	:	÷	-
7	1. Ovarian eysts	:	-	:	- :		i	:	:	:	:	:	:	-	:		:	:	:	:	:	:	-	-	1	:	:		:	
32	2. Ovarian tumor			:			:	:	:			:		-	:		:	:	:	:	-			-	-	<u>:</u>		:	_	-
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	2. Abscess of vulva				1			-	:			:-					:	:	=	:	2 10	: 5		: 9	-				+	
83	3. Pyosalpinx. Diseases of the breast (nonpuer-	:	:	:	-	-		:	:	:	:		:		:	:	:	:	:				:							
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TABLE 1d.—Showing deaths (stillbörths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to marital relations and to nativity and classified with reference to race, sex, and causes of death—Continued.

	Married.	Cause of death.	Under years Under 15 Ander 15 Years. 15 And 15 Years.	M. F. M. F. M.	VII. The puerperal state.	Accidents of pregnancy: 1. Abortion, sportaneous 2. Forgo it gestation 2. Pregnation 3. Pregnation 4. Pregnation 4. Pregnation 5	orrhage.	ery neum	100	Puerperal diseases of breast
		c.	15 years and over.	F. M.		e :	21		2 7 7	
Marital	SIS	W.	Under years 15 and years. over.	F. M. F. M. F.						
Marital relations.	Single.		Under 15 years.	M. F. M.						
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	Widow or widower.		F. M. F			:::			:::::	
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	Unknown.	ن 	F. M.				: :	::	:::::	:: _
	1		F. M.			: : :	::	::		
	District of Columbia.	W.	Ţ <u>r</u> i			::8	::			:: 2
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	Other parts of the United States.	₩.	M. F.			:2:		::	0.81	:: 2
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d cellulur	4			
ATH. Discussed akin and cell discussed by the cell of	Total diseases of skin and cellular tissue	d ndible	Total diseases of bones and organs of locomotion X. Malformations.	Congental malformations: 1. (refr pelatic. 2. Hydrosphalus 3. Memor populus 4. Memor pennense 5. Fyfore stenosis. Total malformation
143 145 145		146 147 149		150

Table 1d.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to marital relations and to nativity and classified with reference to race, sex, and causes of death—Continued.

						-	farital	Marital relations.	ns.						-				4	Nativity.	ty.				
			Mar	Married.			SZ SZ	Single.		==	Widow or widower.	or er.	Unk	Unknown.	1	District of Columbia.	et of bia.	Oth	Other parts of the United States.	ts.	Fore	Foreign.		Unknown.) A
	Cause of death.	=	W.		c.		W.		٠;	*	W.	ر. ان	₩.	ن	1	W.	<u>ن</u> ا	Ä.		ن	Α.	5		W.	- ا ن
		Under 15 years.	15 years and over.	Under 15 years.	Under years Land years. over.	Inde 15 rears	years and over.	r years Under years and and years. A over. A	r years and s. over.	M.	F. M	<u>r</u> .	M. F.	Ж.	F. M.	F	F.	15 years over. M. F. M. F. M. F. M. F. M. F. M. F. M. F. M. F. M. F. M. F. M.	. K	F. M		Ä	F. M. F.	ř.	M.
		M. F.	M. F.	M. F.	M. F.	M. F. M. F. M. F. M. F.	M. F.	×	F. M. F.													1			
č	XI. Early infancy. Congenital debility, icterus, selectus. 1. Congenital debility. 2. Purcpeal e cl am ps ia (child). 3. deterus mountorum. 4. Marusmus. 5. Permaturity. 6. Selectus.					30 21 30 21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		11 11 11 11 11 11 11 11 11 11 11 11 11							2,2,2,1	6.59	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	: : 6						: :::::	
0	Other eauses peculiar to early infancy: 1. Asphyra neonatorum. 2. Afelectasis. 3. Differtl khor. 4. Haemophillia. 5. Mapresentation. 5. Makes association.					20 20 11 11 11			1112							2000	1 22 22								
(*)	7. Ometa nonacon mental substance in the control of					- :	1	-								- : 9	1 5	:::0							

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XII. Old age.	NIII. External causes.	nereury			20	nts	4	isoning:	1ydrate	ds	xiation from food.		gas trynx).	ntal	idental	cles, rail- al):
Senilly	XIII.	Smi	5. Hydu 6. Nitri	Sui					2. Chlor 3. Cpiu		1. Axphy	4. Fthe	Drownir			
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Table 1d.—Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged with reference to marital relations and to nativity and classified with reference to race, sex, and causes of death—Continued.

Married. Single. Widow or Unknown.	Nativity.	District of Other parts Columbia. Unified Foreign. Unknown.	W. C. W. C. W. C. W. G.	F M. F. M. F. M. F. M. F. M. F. M. F. M. F.		
Martied Single			C. W.	F. M. F. M. F. M.		
W. C. C.	Marital relations.	Single.			1. F. M. F. M. F. M. F.	
		Married.		years Under 15 and over.	F. M. F. M. F. M. F. M	
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ				Unde 15 years	M. F	XIII. External causes—Contid. Traumariem by vebicles, rail- ways, etc.—Continued. 4. Railrood, retreted. 5. Rum over by ween. 6. Rum over by ween. 7. Thrown from horse. Kicked by horse. Kicked by horse. Kicked by horse. Kicked by horse. Kicked by horse. Kicked by horse. Kicked by horse. Kicket hy horse. Fleat bile. Fleat bile. Fleat bile. Lightnine. Lightnine. Lightnine instruments. Homicide, cutting riminal. 1. Abortion, criminal. 2. Assault, fractured skull. 3. Murmier. 4. Riuming. 5. Murmier. 5. Murmier. 6. Murmore with bothe feek. 7. Strunke with bothe feek. 7. Strunke with bothe feek.

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30		1-1		60	95 149 99 107	99	121	2	88-	122
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38		:	163	59	% % ₩	47	286		: 282:	943 514
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ut. Strone Ny Galine body. 2. Strone in Strone 2. Strone in Strone 1. Trainmatic generation. 1. Trainmatic sensis Total external causes	defined organic diseases. dem desth. 1. Cardiac asthenia. 1. Cardiac asthenia. 2. Dentifinan. 1. Infantile arroby (I year and oved). 3. Marismins (I year and oved). 5. Marismins (I year and oved). 6. Unknown cause.	Totalill-defined diseases	General diseases Diseases of nervous sys-	special sense Diseases of circulatory	IV. Diseases of respiratory system	v. Diseases of digestive system. VI. Diseases of genitouri-	nary system The puerperal system. Diseases of skin and cel-	IX. Diseases of organs of lo- comotion	Early infancy Old age External causes. Ill-defined diseases.	Total deaths from all
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Other external violences 1. Structs by falling 2. Structs by falling 2. Transmittences 1. Transmittences 1. Transmittences Total external cons XIV. Ill-defined disease	nded organic diseases n death. n death. n death. cycladar asthenia Cardiar asthenia Concestive fever Dentition Marasmus (1 year a Over). Unknown cause.	efin	RECAPITULATION. General diseases Diseases of nervo	sens of c	of r	o : o	rste per of sl	ofo on.	fanc Jean	eath
mat mat exte	rgan th r no ac a ac a sstiv ttion tile r an mun	11-de	rrur al d	cial ses	ses	system.	y sy	ses	rini rnal	l de
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S X	Ill-defined organic diseases: Studen destination of the Studen destination of the Student astheria astheria (Connestive fever 2. Dentestive fever 4. Infantile arrophy 5. Marsamis (I year as 6. Unknown ceuse.		i ii	Ħ	VI	> 5	vIII. The puerperal system	Z ×	XI. Early infancy. XII. Old age XIII. External causes. XIV. III-defined diseases.	
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	187 189 189									

Table 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological

			Co	om n di	nun sea:	ica ses.	ble				dis	iar- ieal eases			-		Vi	oler	ice.				
							ulosis.	ic.		.6.	ter	sen- y ex- led)	ms).	.ms).	tion.		igence.		al.				2
Day of month.	Color.	Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.	Meningitis epidemic.	Pellagra.	Rheumatism, acute.	Under 2 years.	2 years and over.	Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion	Sunstrokes.	Accidents and negligence.	Suicides.	Homicides, criminal.	All other diseases.	Deaths by color.	Total deaths.	Deaths under I year
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3	W.	ï											:::		• • • •	:::		i	1	6	11)	15	}
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5	W.						···			:::			 1	2 4 2 3 2 1			:::	i	1	9	12)	17	} \
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12	W.						1				1		1	1			2			17	12\ 7\ 20\	29	1 1
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14	w.								:::					1			1 .			4	6)		3
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,		"			-	1 2	U	1	0	0	0	0	5 4	2	0	3			1	60	246	645	21}

year 1916. arranged with reference to race, cause of death. and corresponding daily conditions.

JANUARY.

			tion of ind.	Direc			bulb).	exposed	erature (e	Tempe		
	Rainfall (inches).	Total movement of wind.	8 p. m.	8a. m.	Mean dew point.	Mean wet bulb.	Mean.	Range.	Minimum.	Maximum.	Mean relative humidity.	Mean barometer (actual).
1	.05	67	s	S	37. 0	39.0	40	13	34	47	88	30.04
ł	T.	138	w	SE	36.0	45.7	58	25	45	70	59	29, 80
	0	428	NW	w	18.5	27.8	42	19	32	51	43	30. 22
	0	170	SE	W	22.0	29, 2	37	18	28	46	58	30, 43
	Т.	232	sw	sw	36. 5	45.0	53	22	42	64	54	29.88
	. 01	286	N	N	24.5	33.9	48	29	33	62	55	30.13
	. 46	151	w	NE	20.0	23.4	27	14	20	34	82	0.43
-	0	110	NW	N	12.5	16.0	20	12	14	26	70	0.61
l	0	85	SE	NW	8. 5	15.4	18	21	8	29	75	0.56
1	. 03	122	s	SE	36.0	37.0	34	19	25	44	87	0.00
	. 09	70	N	NW	40, 5	41.8	44	5	41	46	88	0.11
1	. 03	156	E	E	36.5	37. 2	39	6	36	42	94	0.22
l	. 01	238	N	SE	31.0	36.0	39	22	28	50	70	0.10
1	0	353	NW	NW	8.5	19.0	24	8	20	28	50	0, 42
	T.	154	sw	N	8.5	17.8	22	13	15	28	54	0.48
1	.06	100	w	sw	27.0	30.8	32	11	27	38	76	9.86
1	0	395	NW	NW	1.0	12.6	22	22	11	33	46). 10
	0	214	NW	sw	1.0	13.0	18	19	9	28	48). 26
	0	111	E	S	8.0	19.8	27	22	16	38	47	0. 55
1	. 03	145	S	S	24.0	33.8	40	16	32	48	54	0.48
1	0	75	sw	W	40. 5	45. 6	53	28	39	67	68), 36
1	. 13	175	w	sw	53.0	54.6	58	14	51	65	86	0.05
1	0	165	NW	W	24.5	32.8	39	18	30	48	56). 42
1	0	82	S	NW	26. 5	37.0	38	24	26	50	74), 55
:	0	82	s	w	41.0	43. 4	48	22	37	59	84), 49
1	0	81	s	0	46.5	49.6	56	27	42	69	80). 45
4	0	119	sw	s	45.0	53.8	62	14	55	69	74). 36
2	.03	244	NW	w	48.5	54.0	58	22	47	69	66), 23
2	. 56	230	E	NE	30.0	34.2	41	12	35	47	77). 54
	0	104	s	E	39. 5	40.2	40	11	35	46	96). 30
	. 40	175	S	S	53. 5	56.2	58	25	46	71	77), (()

Table 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological February.

			Co	mn di	nun seas	ical es.	ole				Di rhe dise						Vic	olen	ce.				
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Day of month.	Color.	Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.	Meningitis epidemic.	Pellagra.	Rheumatism, acute.	Under 2 years.	2 years and over.	Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Accidents and negligence.	Suicides.	Homicides, criminal.	All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.
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ı{	W.			i			4							3 2 1 3 1 2 1 1 2 1 1 2 1	• • •		1 1 1	i		8	17)	26	1 2 1
5{	W.						2 3							1 3			1			6	8	14	1
6{	W.					1	3							1 2						6 9	11)	22{	·····i
7{	W. C. W. C. W. C. W. C. W. C. W. C. W. C. W. C. W. C. W. C. W. C. W. C. W. C. W. C.						2			• • •			• • •	1	•••	• • •		2		3	11\ 11\ 6\ 6\	12{	
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15	W. C. W. C. W. C. W.						i					···i	i	2 1 1			i 	i		6	13)	22	1 2
16	w.		::		:		2										:::	:::		16	18)	27	
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18}	W.					. 1								i		•••	•••	:::	:::	12	14)	25	3
19}	C. W.	1:::	::		:	i	. 2			:::									:::	5	7)	15	400
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22	W.			1::			. i							i			• • •			3 15	4 \ 17\	21	
23	C. W.						. 1					1		1			1			13	4f 16)	25	
24	C. W. C. W. C. W.						i			1				1			1 2			7	101	18	
25	C.				. 1		1			. 1				2			i i			4	8)	28	
26	C.	-	-				. 2					1 1		3						5 8	10)	17	
27	U.C.		-				. 1 1 2 2 2 2 2 2 2	-		-				3 1 2 3 1			1			2 4	6)	18	
	WC.W.			-			. 2		. i					. 1						5 11 1 5 2 6 6 1 1 6 7 6 8 8 4 4 1 2 8 5 5 5 7 7 6 8 8 3 1 5 7 7 7 4 1 5 8 8 2 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	11) 7) 13)		
28	C.			-			3						-	1 1 1						7 7	11) 8) 7)	24	
29	C.						. i	i						1						5	7	15	}
30	{ C. W. C. W. C. W. C.																				}		
31		-		::						:											::::}	{	
Total.	{ W.C.	-	2 .		1	0 8	5 3	1 1	1	2	2	4 2	3	38		-	13	6	1	243	353)	561	3 2

year 1916, arranged with reference to race, cause of death, and corresponding daily conditions—Continued.

		Temp	erature (exposed	l bulb).			Direc	tion of			
Mean barometer (actual).	Mean relative humidity.	Maximum.	Minimum.	Range.	Mean.	Mean wet bulb.	Mean dew point.	8a.m.	8 p. m.	Total movement of wind.	Rainfall (inches).	Day of month.
30. 16	80	56	40	16	48	46.2	43.0	s	N	200	0.54	1
30.22	90	40	26	14	33	29.9	28, 5	NE	N	. 184	1.02	2
30.34	68	28	23	5	26	22.2	16.5	NW	NW	300	. 09	3
30, 52	82	33	22	11	28	24.1	17.5	NW	s	141	0	4
30.26	85	44	29	15	36	31, 8	29.0	S	S	100	0	5
29.99	84	54	32	22	43	38, 4	36.0	NE	w	92	T.	6
30.06	42	48	22	26	35	29.6	15. 5	NW	NW	332	0	7
30.46	52	34	16	18	25	19.7	10.0	NW	sw	174	0	8
30.12	82	38	29	9	34	33.6	30. 5	SE	sw	90	.27	9
30.36	72	46	30	16	38	32.8	28.0	NW	w	108	0	10
30.34	68	47	32	15	40	34.0	29.0	NE	SE	122	0	11
30.08	92	40	33	7	36	35. 0	34.0	NE	N	137	. 09	12
30.17	78	35	15	20	25	25.6	21.5	N	N	323	.23	13
30.58	63	17	7	10	12	8,2	1.0	N	N	296	0	14
30. 42	68	31	6	25	18	15, 5	9.5	N	w	111	0	15
30.10	62	43	21	22	32	26.2	19. 0	w	S	76	0	16
29.88	62	52	34	18	43	36. 4	24.5	S	NE	90	T.	17
29.62	68	57	33	24	45	35.7	24.5	w	NW	197	.02	18
29.92	50	33	18	15	26	18.4	8.0	NW	NW	488	0	19
29. 81	55	61	29	32	45	34.8	26.0	S	N	218	0	20
29.40	50	45	24	21	34	22.4	12.0	N	SE	280	0	21
30.15	73	54	25	29	40	35, 2	30. 5	S	S	145	0	22
29.86	74	60	43	17	52	44.0	39. 5	S	NE	123	. 04	23
29.78	90	43	32	11	38	34.0	32.0	NE	NE	339	.35	24
29.35	90	39	33	6	36	33.8	32.5	NW	NW	407	.21	25
29, 41	56	40	32	8	36	30. 1	16.0	NW	w	464	T.	26
29.67	48	32	26	6	29	22. 4	7.5	NW	NW	604	T.	27
29.96	38	35	22	13	28	22.1	12.5	NW	NW	293	0	28
29, 96	64	36	26	10	31	25. 8	19.5	N	sw	115	T.	29
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Table 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological con

MARCH.

			Со		nun	icali es.	le				Di rhe dise	eal eases					Vi	olen	ice.				
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Day of month.	Color.	Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.	Meningitis epidemic.	Pellagra.	Rheumatism, acute.	Under 2 years.	2 years and over.	Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Accidents and negligence.	Suicides.	Homicides, criminal.	All other diseases.	Deaths, by color.	Total deaths.	Deaths under 1 year.
1{	W C.						1							3 2 1			1			12 3 10 3	17\ 5\ 15\ 4\ 7\ 3\ 13\	22{)
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5}	w.														:::	:::	2 1 1 1	:::	i	11	6)	23	î
6	w.				:::	:::	1							1 1 2 1 1 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1		:::		:::		10	9}	23	3
7	W.						1 1 1						• • •	1	:::	• • •	2 		• • •	8	9) 12\	20{	2
8}	C. W.	1:::					1	• • •	• • •				i	2	:::	• • •	·i·	·i·	· · ·	7	8) 10) 5) 9) 7) 13) 9) 15)	15{	1
,	C.						1 1 1	• • • •			1			1						2 8	5) 9)	}	1
9	C.						• • •							1				:		6	7}	16{	2
10{	C.					:::	2						:		:::	:::	:::	:::	• • •	7	9	22{	1 2
11{	C.	:::					1 1 1					i	• • •	3 2		• • •	3	• • •	• • •	6	10}	25	
12{	W.				• • • •	• • •	1	• • • •		• • •				1	• • •		٠.,	• • • •	• • •	6	10) 8) 1)	9{	1
13	W.													2			1			12	151	21	1
14	W.													î				i		13	16}	24	1
15	w.			1 1										i			ï	:::		9	65 16\ 85 12\ 55 14\	17	
16	W.	111		i		:::		• • •					:::	1 4	:::		i	:::	• • •	8	14	23	2
17	W.	1:::					1 2	• • •	• • •	• • • •			• • •	1 2		• • •		• • •	• • •	7 10	9/	23{	2 2 2 1
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20	C.		:::				2 2			:::	i			3	• • • •	:::	i	:::	•••	5 4	10) 9) 17) 14)	19{	
21	W.						2							1 3	i	• • •	1		•••	15 8	17)	31{	2
22	W.						2						i	4			i			15	22\ 11\ 14\ 12\	33{	2
23	W.						1										2			9	14)	26	1
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29	C.						::		1				·i·	4					:::	10	7	19	
30	C. W.C. W.C. W.C. W.C. W.C. W.C. W.C. W	::	:::	:::	-		1 1 1 3					i 1		1			· i ·			$\begin{array}{c} 10 \\ 11 \\ 16 \\ 10 \\ 7 \\ 8 \\ 2 \\ 7 \\ 2 \\ 8 \\ 6 \\ 6 \\ 12 \\ 1 \\ 4 \\ 8 \\ 7 \\ 7 \\ 9 \\ 4 \\ 8 \\ 7 \\ 7 \\ 9 \\ 8 \\ 11 \\ 13 \\ 17 \\ 7 \\ 9 \\ 8 \\ 11 \\ 13 \\ 17 \\ 7 \\ 10 \\ 6 \\ 6 \\ 3 \\ 5 \\ 9 \\ 5 \\ 4 \\ 15 \\ 8 \\ 5 \\ 7 \\ 7 \\ 9 \\ 8 \\ 11 \\ 13 \\ 17 \\ 7 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 $	17	26	
31	{ C.		11:	:::			1 3					1		2				2 1		11 3	12) 7} 17) 9) 17) 7}	24	
(Taka)		1		2	0	2	-	-	1	1	0	1	2	54	0	-	20	-			418)		33
Total	{ W. C.	0		. 2	0	1	28 30		. 0	0	0 3	1 3	8	54 35	0		20 7	7 2	03	298 140	234	652	3:

year 1916, arranged with reference to race, cause of death, and corresponding daily ditions—Continued.

MARCH.

		Tempe	rature (e	exposed l	oulb).			Direct wit	tion of nd.			
Mean Parometer (actual).	Mean relative humidity.	Maximum.	Minimum.	Range.	Mean.	Mean wet bulb,	Mean dew point.	8a. m.	8 p. m.	Total movement of wind.	Rainfall (inches).	Day of month
30.17	64	43	23	20	33	27. 2	20	N	s	144	т.	
29. 91	88	46	32	14	39	35.8	34	w	NW	116	0.13	
29.88	84	36	23	13	30	26.8	24	N	NW	311	. 15	
30.06	66	31	19	12	25	22.5	16	NW	sw	342	0	
30.02	40	44	25	19	34	30.0	15	NW	NW	309	0	
30. 90	65	32	26	6	29	25.1	18	SE	NE	179	т.	
29, 60	71	59	27	32	43	37.3	32	s	Е	105	т.	
29.54	50	46	30	16	38	30.6	20	N	NW	355	.06	
29.82	39	40	23	17	32	23.8	9	NW	NE	378	0	
29.80	47	49	28	21	38	31.8	21	sw	NW	270	Т.	1
30. 25	45	39	23	16	31	23. 2	10	NW	NW	214	0	1
0.12	56	49	22	27	36	30.7	21	s	s	112	0	1
9.74	52	65	41	24	53	42.6	34	sw	NE	164	0	1
9.82	80	50	36	14	43	36. 2	33	NE	NE	205	. 33	1
9.80	78	37	23	14	30	29.9	26	N	NW	341	. 12	1
0.12	46	31	16	15	24	18.4	6	NW	NW	493	0	1
0.22	58	32	21	11	26	22. 2	14	NW	NW	277	т.	1
0.18	47	32	14	18	23	18.8	7	N	SE	156	0	1
0. 20	51	44	26	18	35	26.8	16	NW	N	193	0	1
0.32	43	41	23	18	32	24.3	12	NW	SE	129	0	1
9.84	70	44	28	16	36	33.4	28	s	Е	103	.03	1
9.34	90	40	34	6	37	35.8	34	E	N	151	.86	2
0.09	46	48	28	20	38	30.4	19	N	NW	178	0	2
0. 21	68	53	28	25	40	34.3	28	N	E	71	0	2
0.12	58	71	34	37	52	41.0	34	NW	E	58	0	2
0.10	42	71	41	30	56	43.2	31	E	SE	87	0	2
9, 94	84	53	43	10	48	43. 2	40	E	E	189	.74	2
9.76	92	46	40	6	43	42.4	42	E	N	207	.36	2
9.88	94	45	38	7	42	40.9	40	N	N	144	.02	2
80.02	59	61	43	18	52	46. 4	39	N	N	146	т.	3
80.10	50	69	45	24	57	45.9	36	N	s	91	0	3

Table 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological con

			Co	mn di:	nun seas	icat es.	le				die	ar- eal eases					Vi	olen	ce.				
							ulosis.	ic.		e.	tery clud	sen- ex- led).	ns).	ms).	lon.		igence.		11.				
Day of month .	Color.	Typhoid fever.	Measles.	Searlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.	Meningitis epidemic.	Pellagra.	Rheumatism, acute.	Under 2 years.	2 years and over.	Bronchitis (all forms).	Pneumonia (all forms)	Pulmonary congestion.	Sunstrokes.	Accidents and negligence.	Suicides.	Homicides, criminal.	All other diseases.	Deaths, by color.	Total deaths.	Deaths under I year
1{	W.						1 1 1 2 2 1 2							1				1	·i·	11	14}	19{	
2{	C. W.						1							4				:::		11 3 12 6 6 5 7 7 15	14) 5) 17) 7) 13)	24	1
3	W.						2							5 4				:::		6	13	24	
4	W.						1								:::	:::	:::	:::	•••	7	8) 11)	19	
5	W. C. W. C. W. C. C.						1						i				···· 1	:::		15	17)	23	
6	W.								:::				• • • •	1				:::	:::	11	12)	25{	
7}	w.										···i			1 1 1	:::	:::	i	•••	• • •	11 12 5 2 11	17) 6) 12) 13) 8) 2) 14) 8) 18) 5)	10{	
8}	W. C. W. W. C. W. W. C. W. W. W. W. W. W. W. W. W. W. W. W. W.		:::				1 1						• • •				• • •	•••	• • •	2 11	25 14	22	
}}	w.		:::		1	ï	1	:::		:::		:	i	1 5 2			i	i		10	8) 18)	}	• • • •
)}	w.		• • •			·i·	i			• • •	···	···i								3	10)	23{	• • • •
}	W.						1 2 2 3				1 1			2 1 1				ï		7	12) 12) 6)	22	
2}	C.	i					3						1	î						2	6)	18	
3}	C.		1				i						· i			:::		:::	:::	7	14)	22{	
4}	C.						2 2 1 1							2 4			ï	 1	:::	4	11}	20{	
,,,,,,	C.						1				1				:::	:::	·i·	1	:::	3	13	18{	
5	C.					:::		:::					:::	1 2 2 3 1 2				1 1	:::	7 2	10) 5) 13)	15	
6{	C.					:::	1 3 2 1 1			:::				2 3			i			9	101	23	
7{	C.		:::			:::	1							1 2	•••		i	ï		7	11)	18	
8{	C.					•••							1				• • •	1 1		6	91	19	
9	W.						1							3 2			1 1			7	10) 12) 9)	21	
0{	W.						1 1 1 1						1							8	101	19	
1	C. W.	i					1					····i		ï		:::	ï		:::	11	9) 13)	24	
2	C. W.						1								:::			:::	:::	6	11∫ 6}	13{	
3	W.						1 2							1	:::		1	•••	:::	5	7) 6)	11	
4	C. W.					1					1	::::						i		$\begin{smallmatrix} 4 \\ 10 \\ 3 \\ 6 \\ 7 \\ 8 \\ 2 \\ 12 \\ 7 \\ 9 \\ 4 \\ 4 \\ 5 \\ 3 \\ 6 \\ 2 \\ 7 \\ 3 \\ 6 \\ 9 \\ 7 \\ 5 \\ 8 \\ 7 \\ 11 \\ 8 \\ 6 \\ 4 \\ 5 \\ 3 \\ 6 \\ 2 \\ 7 \\ 3 \\ 9 \\ 4 \\ 4 \\ 2 \\ 9 \\ 2 \\ 12 \\ 3 \\ 2 \\ 12 \\ 3 \\ 2 \\ 12 \\ 3 \\ 2 \\ 3 \\ 4 \\ 4 \\ 4 \\ 2 \\ 9 \\ 2 \\ 12 \\ 3 \\ 2 \\ 12 \\ 3 \\ 3 \\ 4 \\ 4 \\ 4 \\ 2 \\ 9 \\ 2 \\ 12 \\ 3 \\ 2 \\ 3 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4$	6) 7) 6) 5) 9) 5)	14	
5	W.						3 1 1						i		•••		ï	 1		2 7	5) 11)	}	
6	C. W. C. W.												i	1 2			• • •			3	11\ 4\ 15\	15{	
7	W.					• • •	2							2			1 1 1	ï		4	10) 6) 5)	25	
8	w.					i	1							1			1			2	5)	11{	
9	C.	i					1 1 1 1 1 2							1 1 1 1		:::				2	12)	16	
	C. W. C. W.					i											i		:::	12	6	22{	
0	C.						1							1				• • •		12 9	16) 6} 13) 11}	24	
Total	W.	2	1 0		0	4	28 37				4	3 1	7 2	34 31	-	-	8 8	9 3	0	253 139	353) 226}	579{	

year 1916, arranged with reference to race, cause of death, and corresponding daily ditions—Continued.

APRIL.

			tion of	Direct			oulb).	exposed l	rature (e	Tempe		
Day of month.	Rainfall (inches).	Total movement of wind.	8 p. m.	8 a. m.	Mean dew point.	Mean wet bulb.	Mean.	Range.	Minimum.	Maximum.	Mean relative humidity.	Mean larometer (actual).
1	0	112	s	SE	43.0	48.6	58	29	44	73	66	9.98
2	T.	111	N	N	37.0	46, 1	54	11	48	59	54	30.02
3	0.10	144	NE	NE	36.0	38.7	44	9	39	48	81	0.13
4	T.	109	N	NE	39.5	41.1	42	9	38	47	88	0.02
5	T.	96	0	N	36.5	43.0	50	25	38	63	68	0.02
6	.01	120	NW	N	31.5	42.6	52	22	41	63	48	9,99
7	T.	108	SE	NW	26.5	36.4	43	16	35	51	50	0.11
8	. 69	85	NE	NE	32.5	33.8	39	14	32	46	91	9.78
9	. 42	186	NW	NW	30.0	39.9	40	15	32	47	74	9.78
10	0	143	w	w	28.0	37.8	45	18	36	54	50	0.20
11	. 01	94	s	s	35.0	43.4	49	32	33	65	57	0.15
12	0	152	NE	NW	35.0	47.2	60	20	50	70	42	0.10
13	. 04	46	N	NE	46.0	52.8	60	23	48	71	61	92
14	. 06	411	NW	SE	42.5	50.4	63	30	48	78	59	9.66
15	0	280	NW	NW	28.5	42.7	54	20	44	64	38	0.12
16	0	180	SE	w	33.0	44.5	55	32	39	71	4.5	0.20
17	.02	268	NW	sw	37.5	48.2	62	21	52	73	50	9.92
18	0	398	NW	NW	27.5	43.6	58	19	48	67	32	0.00
19	0	165	E	NW	29.5	45.4	56	27	43	70	34	0.10
20	0	132	NE	N	44.0	51.6	64	37	46	83	56	9.96
21	.71	162	SE	Е	54.5	57.2	68	35	50	85	80	9.66
22	T.	214	NW	NW	40.0	48.2	56	8	52	60	56	9.70
23	.06	203	NW	N	38.5	44.2	50	8	46	54	67	9.79
24	0	138	E	NW	38. 5	47.0	54	19	44	63	54	9.90
25	. 65	120	NW	E	46.5	48. 2	52	10	47	57	90	9.78
26	.14	119	E	sw	43.5	47.2	52	21	42	63	75	9.87
27	. 05	168	NW	NW	42.0	44.7	52	12	46	58	80	9.91
28	0	121	SE	N	42.5	46.8	52	19	43	62	72	0.04
29	0	57	NW	s	44.0	50.0	56	22	45	67	66	0.09
30	0	102	s	NW	42.0	52.2	61	30	46	76	46	0.10

Table 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological con

			Co		nun		le				di	Dian hea	al ses					Vic	len	ce.				
							culosis.	nic.		te.	te	ry e	-xe	ms).	rms).	stion.		gligence.		nal.				ear.
Day of month.	Color.	Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.	Meningitis epidemic.	Pellagra.	Rheumatism, acute.	Theor 9 veers	Curat a Journa	2 years and over.	Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Accidents and negligence	Suicides.	Homicides, criminal.	All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.
1{	W.C.W.C.W.C.W.C.W.C.W.C.W.C.W.C.W.C.W.C					· i·	1							1	1 1 1				 1		11 6	13) 9) 10)	22{	2) 2) 1) 1) 1)
2{	W.				:::	:::	1 1 2			1	::	::				:::					6 4	6	16{	1)
3{	C.				1		2								1			1 2 2	 2		3 8	6) 12) 8)	20{	1)
4{	C.						i												• • •		$\begin{smallmatrix} 6&6&4&9&3&8&3&7&4&6&6&7&2&5&4&6&2&9&3&8&2&4&3&3&7&5&8&7&4&6&3&8&3&6&4&8&2&8&2&6&2&0&9&2&1&1&8&2&0&7&5&8&3&6&4&8&4&8&4&1&1&1&1&1&1&1&1&1&1&1&1&1&1&1$	13) 3) 10) 5) 8) 8) 11)	16{ 15{	2
6	C. W.						1						1						i		6	5) 8)	16	
7}	W.						1 1 1								1 1 2			ï		ï	6 7	11)	15{	····_2}
8}	w.				: : :			:::			: ::				2					:::	5	4 { 5 } 6 }	11{	
9	w.				. i		1 3 3	:::			:::										6	8}	14	1) 2) 1)
10	W.						3					1			1 2						9 3	14	18	1)
11	W.						2								2			i	2		8 2	13	17	}
12	W.					1	1 2								i			2			3	13) 4) 8) 4) 5) 7) 9) 12) 8) 9) 6) 5)	12	}
13	W.										:										3 7	5}	12{	}
14	W.	:::					1 3			. i		1			1			1			5 8	9) 12)	21{	1)
15	W.		:	: ::	: ::		3				-	i			1 1						7 4	8}	17{	1
16	W.		:::	: ::	:	· i	i	•			-										6	6} 5}	11{	1
17	C.	i				:	4 2		: ::	:				1				1			8	10)	19{	i}
18	C.	i	1::	. 1		. 1	. 2			: ::				i	1						4	11\ 7\ 9\ 3\ 10\ 2\ 9\ 2\ 14\ 13\	18	1)
19	C.	::				: ::	. 1 . i		: ::	:					1						2	3)	12	2) 1) 2)
20	C.	::			::	:::			: ::	:					1						2	2)	12	
21	C.					: ::		: ::	: ::									i	1		2	2)	11{	}
22	C.					: ::	. 1		: ::	:	:		1	1	1 1 1 4	i			1		9	13/	27	3}
23	C.													1	4				1		1	14) 5) 10)	19	2
24	C.						. 4							1				1			10	12)	16	i
26	C. W.					-				-					i						7 5	9) 8) 5)	21{ 13{	····i{.
27	} C. w.		:					2							1						10	5)	17{	1 { 3 } 1 }
28	\ W.	1:		-							i .	1			1			1			3 7	10) 7} 9) 8}	17	1)
29	} C. W.			1 .				2				• • •			2						5 8	8)	17	1 3 2 1 1
20	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				::	::::	:	:			::	1	1								3 6	10\ 7} 10\ 7} 11\ 7}	17	1)
31	w.			::	1	i ::					:: -	i			2						8	111	18	2
		-			1 4				-	-			• • • • •		i		-				-			
Total.	{ W.	1	3	0	0 3	2 2	2 2 3	8			2 2	2 4	1 2	3	22 20	0		12 2	8	10	227 117	310) 197}	507	33 25

year 1916, arranged with reference to race, cause of death, and corresponding daily ditions—Continued.

MAY.

		Tempe	rature (e	exposed 1	bulb).			Direct	ion of			
Mean 1 arometer (actual).	Mean relative humidity.	Maximum.	Minimum,	Range.	Меап.	Mean wet bulb.	Mean dew point.	8 a. m.	8 p. m.	Total movement of wind.	Rainfall (inches).	Day of month.
30.00	-14	87	54	33	70	55.4	46.0	sw	S	117	0	
29.98	56	82	63	19	72	58. 4	51.5	s	NW	122	т.	
29. 84	60	85	57	28	71	60.5	54.5	SE	sw	148	0	
29.85	80	76	61	15	68	60.7	58.5	SE	E	139	.22	
29.86	64	77	55	22	66	56.6	51.0	NW	s	159	. 15	
29.92	54	78	60	18	69	56.6	49.0	NW	N	168	0	
29.81	77	76	59	17	68	60.6	58.0	s	sw	114	. 05	1
29.78	64	88	55	33	72	63. 2	58.5	SE	w	147	. 07	8
9.92	37	76	54	22	65	51.7	38.5	w	N	286	0	9
9.94	58	74	46	28	60	54.5	48.0	sw	s	157	0	10
29.82	38	80	68	12	74	58.9	45.0	w	NW	260	0	11
0.21	38	73	58	15	66	51.6	38.5	NW	0	198	0	1:
0. 25	58	68	56	12	62	51.3	44.5	NE	NE	191	т.	13
0.15	87	65	55	10	60	58.6	57.5	E	NE	122	Т.	1.
0.00	82	83	54	29	68	64.6	6. 25	s	SE	153	0	14
9.70	91	74	60	14	67	66.0	65.0	E	E	173	. 20	10
29. 67	37	65	51	14	58	47.4	33. 5	NW	NW	334	.06	13
9. S3	51	69	46	23	58	47.8	38.5	sw	N	161	т.	18
80.08	44	71	46	25	58	49.1	37.0	NW	s	150	0	19
0.10	53	73	53	20	63	52.7	44.5	NW	NW	148	0	20
0.16	38	70	54	16	62	49.3	35.5	N	SE	153	0	21
80.14	78	68	48	20	58	55.0	52.0	sw	s	157	. 18	25
80.00	92	65	56	9	60	54.6	59.0	SE	NE	127	. 60	23
30.02	85	71	58	13	64	60.0	58.0	N	s	128	т.	24
29.86	70	88	56	32	72	63.8	60.0	sw	w	113	т.	25
29, 90 !	48	81	65	16	73	60.9	52.5	N	NE	122	0	26
9.96	68	85	63	22	74	64.3	60.5	E	SE	129	0	27
0.00	79	93	63	30	78	68.3	66.0	s	sw	105	. 44	28
29.88	87	85	65	20	75	68.2	67.0	s	s	95	. 26	29
9.68	86	78	64	14	71	66.6	65.0	sw	sw	129	. 07	30
29, 94	51	73	54	19	64	55.0	56.0	N	N	224	0	31

Table 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological con

-			C		nun	ical	le				dis	iar- ieal eases					Vi	olen	ice.				
							culosis.	ic.		ie.	ter	ysen- yex- ded)	ns).	.ms).	tion.		ligence.		al.				ır.
Day of month.	Color.	Typhoid fever.	Measles.	Searlet fever.	Whooping cough.	Diphtheria.	Pulmonary tu' erculosis.	Meningitis epidemic.	Pellagra.	Rheumatism, acute.	Under 2 years.	2 years and over.	Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Accidents and negligence.	Suicides.	Homicides, criminal.	All other diseases.	Deaths by color.	Total deaths.	Deaths under I year.
1{	w.						1 3						1	1						7	10	} 14	·····\
2	W. C. W. C.	i								:::				3				:::		6	10 4 7 6 6 6 6	13	1
3	W.						1	:::	:::				1	3		•••	:::		i	5	6	12	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
4	w.						1						1	ï				:::		3 9	11	15	1
5	W.						1 1 2 1 1										1			8	11 4 4 100 5 66 8 87 77 68 8 87 77 66 8 87 77 77 8 84 4 4 60 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	15	1 1
6	w.						.;.	:::	:::					1		:::	1 1 1			2 4	5	14	} }
7}	w.				1							1		·:·						7 4	8	13	}{
8}	w.					:::	4	:::			::::		:::		:::		:::		• • •	8	6	15	1
9{	w.							:::					1	1	• • •	• • •	• • •	:::	•••	5 9	7	15	1 1
10}	w.		1			:::			:::		1			i			:::		• • •	5 5	6,	12	1 1
11}	w.	i	:::				i	:::	•••	1				1						12	14)	20	
12	w.	:::			1	:::	:::	:::	:::				1	:::			1			3 5	6)	20	1 2 1 1 2 1 2 1 2
13	w.					•••	2	:::	•••			····		1	• • •					3 5	5	11-	25.
14	w.				ï	:::	2			•••			1				· i	1		5	7)	15	2)
15	w.		:::	:::			2	•••		•••				1						6	9)	16	2 2
16}	w.						2 1 1 2 1 1 3	•		•••			i					1		13	15)	12	}
17}	W.					••••	3	•••	ï	•••	••••									3	6)	21	1)
18}	W.					•••	•••						1	1			1			3	4)		1
19}	W.		•••											2			1		i	5	6)	17	1) 2)
20}	W.	1					1													2	101	14	}
21}	W.										··i	1								6	4	11	1
22}	W.				i		$\frac{1}{2}$													5	8)	17	1)
23}	W.						. į.										i .			2	9)	11	2
24	C.				i		1							1 .			i		::	8	11)	19{	i}
25	C.		i								1			1					:-	8	9	13{	2
28	C.				1		1											i :	::	4	6	12{	1
27	C.						2					::::		2 .			::	::		9	11	18{	}
20	C.	::: 1						1						1 .	::			i .		6	8	13{	1
28	CW.CW.CW.CW.CW.CW.CW.CW.CW.CW.CW.CW.CW.C						2							1 .						7162533928247742855955331235335552652233839566263757258881449466477400211	11\ 6\ 10\ 4\ 7\ 4\ 9\ 8\ 11\ 6\ 6\ 11\ 7\ 8\ 5\ 11\ 11\ 12\ 12\	17{	1)
29	C.	1	•••		:::		1 2				1			3 .						10	12)	20{	3}
30	C.		:::											2 .			i :		i	11 0	8) 12) 4)	16	1)
31{	č.	:::																			}	}	}
Total{	W. C.	3 2	1	1 0	3 5		22 26	0	1 0	0	2 3	3 0	3 1	20 .		::	8 4	3	0 3	210 101	271) 173)	444{	2S 22}

year 1916, arranged with reference to race, cause of death, and corresponding daily ditions—Continued.

JUNE.

		Temp	erature	(exposed	bulb).			Direc wi	tion of nd.			
Mean barometer (actual).	Mean relative humidity.	Maximum.	Minimum,	Range.	Mean.	Mean wet bulb.	Mean dew point.	8 a. m.	8 p. m.	Total movement of wind.	Rainfall (inches).	Day of month.
30.17	49	76	49	27	62	52.7	43.5	N	s	100	. 05	1
30.01	60	79	56	23	68	59.6	53.5	s	SE	230	0	2
29.72	61	79	62	17	70	59.8	53.5	s	NW	202	. 03	3
29.88	52	79	55	24	67	55.6	47.5	NW	s	133	0	4
29.82	64	84	58	26	71	62. 2	57.5	s	NW	104	0	5
29.86	58	76	59	17	68	59.5	53.5	E	E	151	.03	6
29.72	91	64	57	7	60	59.0	58.0	E		215	1.00	7
29.92	75	78	56	22	67	60.0	57.0	N	E	116	. 53	8
29.95	90	72	58	14	65	57.8	56.5	NE	NE	167	.59	9
29.94	90	71	57	14	64	58.9	57.5	E	E	167	2.18	10
29.97	79	76	58	18	67	60.9	58.0	NW	0	88	0	11
30.04	78	80	55	25	68	62. 4	59.5	N	E	88	0	12
30.03	72	79	59	20	69	63.6	60.0	N	NW	108	0	13
29, 94	68	83	60	23	72	64.2	60.0	SE	SE	112	T.	14
29.88	89	69	64	5	66	63.7	62.5	E	SE	242	.40	15
29.74	92	76	65	11	70	67.6	67.5	SE	SE	239	1.06	16
29.85	68	84	66	18	75	64.7	60.5	NW	SE	105	0	17
29.90	62	84	60	24	72	64.6	59.5	sw	S	97	0	18
29.78	68	85	63	22	74	66.4	62.0	sw	w	93	.01	19
29.89	65	81	63	18	72	63. 8	59.0	NW	sw	97	0	20
29.94	80	81	59	22	70	60.0	58.0	NE	NW	174	. 28	21
30.14	56	75	54	21	64	56.6	49.0	NW	w	213	0	22
30.06	58	78	57	21	68	59. 2	53.0	NW	NW	162	0	23
29.96	78	86	57	29	72	64.8	62.5	E	sw	122	.13	24
29.94	86	82	67	15	74	69. 2	67.5	s	sw	91	1.15	25
30.00	76	86	68	18	77	70.2	68.0	SE	SE	113	0	26
29.98	80	86	67	19	76	69.0	66, 5	SE	E	108	.14	27
29,99	75	87	67	20	77	68.5	66.0	NW	N	116	T.	28
30.04	60	85	65	20	75	65.0	60.0	NE	SE	96	0	29
30.04	69	75	66	9	70	63.7	59.5	NE	NE	147	T.	30
						00.1	00.0					31

Table 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological con

JULY.

			Co	mr di	nui	nica ses.	le				Dis rhe dise						Vic	olen	ce.				
							ilosis.	c.			(dystery	ex- ed).	ns).	ms).	ion.		igence.		al.				r.
Day of month.	Color.	Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.	Meningitis epidemic.	Pellagra.	Rheumatism, acute.	Under 2 years.	2 years and over.	Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Accidents and negligence.	Suicides.	Homicides, criminal.	All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.
1{	W. C. W. C.				. 1															2 2 2 5 7 5 6 4 9 6 5 8 10	3) 2) 4) 9) 8) 5)	5{.	2}
2	W.				-	-	1 3							1	•••					2 5	9	13	}
3	W.			-		1					1									7 5	8 5	13{	1)
4	W. C. W. C. W.	1		-:			2				1	2		:::	:::	:::	•••	1	:::	6 4	10) 7} 11)	17{	2) 1) 1)
5	W.				. 1						 2 1			1			1		:::	9	136	24	4
6	W.				. i						1		•••							5 8	6)	15	2)
7	W.C.W.C.W.C.W.C.W.C.W.C.W.C.W.C.W.C.W.C				-		. 1				1			1					ï	10	14) 5) 8) 13)	19	4) 4) 2) 1) 1) 1) 2) 2) 1)
8	W.						. 1				1 1 1 2	1	:::	3				ï		4 6 6 5 3 5 3 8 3 6 7 6	13	21	1
9	W.																3			5	8} 6} 8} 5}	14	1)
0}	W.				-		. 1				2 1 1 1			1						5	8	13	2)
1	W.	1	1								î	1					1			8	12) 4} 14)	16	
2	W.	1			-		. 1							1		i	4	i		6	14	24	2
3	W.		i					-			1	i		1			1	i		6	11)	17{	4
14	W.							-									1			4 7 6 10	10} 11) 6} 8} 9}	17	3)
15	w.	i	1						1		1			1						10	13 7 11	20	4)
16	W.					i	. 1	-:			1 1 2 1 1							:::		4 9 8 4 3 3 7	11)	21	2)
17	w.					1						1								4	5	12	1)
18	w.						. 1				1	i		1			i	1		3	9	16	2)
19	W.				:		: ::	: ::			i						:::		·.·	10	12)	15	3)
20	w.	1	::											1						5	7	11	1)
21	W.	i		-			. 1				1	1 1 1 1		1			1 2 1	i		10	16)	32	3) 1) 4) 2) 2) 2) 2) 2) 2) 3) 3) 1) 1)
22	W.						. 1				. 1	. 1					1			5	7)	14	
23	C. W. C. W.	::	: ::			i .	. 2 . 1 . 1 . 1		. 1	i	1						1		····	8	12	18	3) 1) 2)
24	W.			:			. 1				. 1	1		1						5	8)	16	1
25	W.	1::	: ::	:						: ::	. 1									3	4)	16	1
26	W.		1	:						:::	. 3			1			2 2			9	17	27	1
27	C. W. C.		: ::		::	1 .	2	::	: ::	:::	2 1 2 1 1 1 3 3 3 1 5 1	i								2 5 5 0 10 11 1 5 5 2 8 1 5 5 3 3 3 6 6 9 9 4 4 6 6 5 5 5 1 1 8 8 6 8 8 3 3 1 9 9	10) 55 77 12(377 4) 16(16) 77 12(388) 41 12(10) 16(11) 16(11) 16(11) 16(11) 16(11) 16(11) 16(11) 16(11) 16(11) 16(11) 16(11) 16(11) 16(11)	25	1 4 4 5 5 2 2 2 1 1 2 2 1 3 3
28	W.		:		::	1 .	4		: ::	:::	. 1			. 1						5 5	16	13	2
29								3	: ::	: ::	. 2									8	10) 3) 12)	20	1
30	C.	1	-							:	. 1	:::					1			6 8	8) 10) 7) 11) 14)	17	1
31	\ W	1							: ::	: ::	1						1 1 1			10	7	25	1
			_	-					• • • •		. 2				-							201	-
Total .	{ W.	3		2 :		6 .	3		. 2	1 0	21 40	6		. 8		1 0	18	6	2	202 141	298) 248)	546	55

year 1916, arranged with reference to race, cause of death, and corresponding daily ditions—Continued.

JULY.

		Tempe	rature (e	xposed 1	oulb).			Direc wi	tion of nd.			
Mean Parometer (actual).	Mean relative humidity.	Maximum.	Minimum.	Range.	Mean.	Mean wet bulb.	Mean dew point.	8а. ш.	8 p. m.	Total movement of wind.	Rainfall (Inches).	Day of month.
30.00	72	85	66	19	76	67. 5	64.5	NE	S	75	0	1
29. 52	78	88	68	20	78	71. 2	69.0	s	s	124	. 01	2
29. 65	68	86	71	15	78	69.0	65.0	w	NW	174	т.	3
29.84	63	81	65	16	73	63.8	58.5	NW	NW	201	0	4
30.06	61	75	62	13	68	60. 2	55.0	N	N	210	0	
30. 16	57	84	60	24	72	62. 4	57.0	NW	s	93	0	1 6
30.06	63	88	61	27	74	67.6	63. 0	sw	SE	102	0	1
29. 92	72	90	69	21	80	71.2	68.5	SE	S	95	0	
29. 95	50	80	69	11	74	68.6	66.0	S	w	101	. 34	9
30.04	93	82	69	13	76	69. 4	69. 0	SE	Е	82	. 73	10
30.04	80	91	70	21	80	73.8	72.0	sw	s	113	0	11
30.01	70	95	73	22	84	73.6	70.5	sw	s	110	0	12
29.97	70	94	74	20	84	74.8	71.5	s	s	121	0	13
30. 09	77	89	73	16	81	74.0	71.5	s	SE	122	0	14
30. 19	78	90	76	14	83	74. 4	72. 5	SE	SE	173 .	. 04	15
30.06	75	89	75	14	82	72.6	70.0	S	S	150	т.	16
29.94	80	83	72	11	78	72.6	70.5	S	SE	175	. 03	17
30.05	7.5	86	71	15	78	71.7	68.5	SE	SE	173	0	18
30.01	78	86	70	16	78	72. 4	70.0	NE	E	167	. 09	19
29, 88	78	86	71	15	78	72.4	70.0	N	N	176	Т.	20
29, 80	75	93	71	22	82	73. 4	70. 5	s	sw	83	0	21
29.85	92	86	70	16	78	71.5	70. 5	N	s	101	1.67	22
29, 91	83	91	70	21	80	72.9	71.0	NW	w	73	0	23
30, 05	91	87	71	16	79	73. 0	73.0	NE	SE	78	. 15	24
30, 05	92	81	72	9	76	73. 5	72. 5	SE	SE	179	1.85	25
30.06	86	85	71	14	78	71.8	71.0	W	NW	95	. 02	26
30.06	82	93	71	22	82	73. 4	72.0	sw	sw	70	0	27
30.16	86	78	70	8	74	70.4	68.5	NE	NE	162	. 04	28
30, 27	68	80	60	20	70	63.6	59.0	NE	SE	114	0	29
30.17	50	86	62	24	74	69.6	67.5	sw	sw	72	0	30
29, 35	46	91	71	20	81	75. 2	73.5	S	sw	104	0	31

Table 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological con

			Co	mn dis	nun	icab es.	le				Di:	ases					Vi	oler	ice.				
							ulosis.	ic.		е.	(dy: tery clud	sen- ex- led).	ns).	ms).	tion.		igence.		al.				2
Day of month.	Color.	Typhoid fever.	Measles.	Searlet fever.	Whooping cough.	Diphtheria.	Pulmonary turerculosis.	Meningitis epidemic.	Pellagra.	Rheumatism, aeute.	Under 2 years.	2 years and over.	Bronehitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Aecidents and negligence.	Suieides.	Homieides, criminal.	All other diseases.	Deaths by eolor.	Total deaths.	Deaths under 1 year.
1{	w.										1						1			5	.7}	18{	n
2	W.										1 2 1 1	2							:::	6	7) 11) 9) 7) 10)	16{	1)
3	w.	2					1 2		1	1	1 1			1						5	10) 10)	20	2)
4	W.										1 1			2 1			1	:::		5 4 6 4 5 4 4 2 6 9 4	7)	13	1) 3) 1) 2) 2) 1) 1) 1)
5	W.													·			 1	:::		2	7) 6) 2\\ 11\\ 12\\ 8\\ 5\\ 4\\ 8\\ 7\\ 8\\ 7\\ 14\\	13	1
6	W.	i			1		1 1 3				2						٠			9	12)	20	3) 2) 1) 2) 2) 1) 1) 2) 2) 1) 5)
7	W.										1									4	5)	9	2)
8	W.	2					1				1 1 1	1								3	§}	15	1)
9	W.	1					· i ·				2 2 1 3								2	4 5	8) 9}	17	2)
10	W.	1					·				1	1				1	1	1		3	7	21	1)
11	W.						·i·					1								8	8}	13	1)
12	W.						1 2							1 2 1		1	2		:::	7	8) 5) 13) 7) 10)	20	}
13	W.										3 1 1									7 2	10)	14	7
14	W.													1						7	9)	11	1)
15	w.				1		3				1 2									6	11)	18	3)
16	W.												i				2 1			5	8)	10	1)
17	W.						1 1 2				1									3	5	16	1)
18	W.						3							1			i			6	4) 9) 2) 11) 7) 8) 5) 11) 7) 71)	14	1)
19	W.						i.				1			1			1		ï	7	115	16	2) 1) 3)
20	W.						î				1						1			8	11)	17	3
21	W.	· i					1 1 2 2 1							1						13	16)	24	1) 1) 3)
22	W.						ĩ				2 2			1 2						6	10)	18	3)
23	W.										1 3		····				:::			4	5}	13	1)
24	W.						2								:::	:::				7	7)	14	1) 3) 2) 4)
25	W.						2							···· 1					ï	8	9)	13	}
26	W.						·													6	6)	10	2
27	W.									i	1	2		1 2 1			2		•••	9	17)	24	3
28	W.						1 2 2						1				-;-			6	11 6 16 8 10 8 5 8 7 7 7 9 4 9 6 4 7 7 7 9 6 3 6 9	15	}
29	W.													 1			1			2	3)	9	1)
30	W.										1	;	ï		:::		1 1 1		ï	7	11	18	}
31	WCWCWCWCWCWCWCWCWCWCWCWCWCWCWCWCWCWCWC						4				2			···· 1	:::		1			43364538827473716450376273843366437481639562247647	11\ 7\ 4\ 15\	19	1)
Total. {	W.	3 5			1 2		14 38		1 0	2 0	22 26	6 3	3 2	11 16		1 1	14	1 1	5 0	181 122	265 ₂₂₃	488{	47

year 1916. arranged with reference to race, cause of death, and corresponding daily ditions—Continued.

AUGUST.

		Tempe	rature (e	xposed l	ulh).			Direct	ion of			
Mean l'arometer (actual).	Mean relative humidity.	Maximum.	Minimum,	Range.	Меап.	Mean wet bulb.	Mean dew point.	8а, ш.	8 p. m.	Total movement of wind.	Rainfall (inches).	Day of month
30.09	67	82	65	17	74	67. 2	63.0	N	N	155	0	The same
30. 15	64	80	65	15	72	64.0	58.0	Е	SE	144	0	
30.04	80	83	60	23	72	67.2	64.5	N	s	71	0	
0.06	86	86	70	16	78	71.6	70.5	sw	N	70	. 13	
30.07	90	89	69	20	79	75. 4	74.5	Е	SE	74	0	
30.06	83	91	74	17	82	75.3	73.5	NE	s	69	1.46	
9.98	80	91	73	18	82	76.4	74.5	sw	sw	115	0	
29. 80	84	94	72	22	83	74.0	72.5	sw	N	128	. 17	
9.83	76	86	72	14	79	72.6	70.0	N W	w	109	T.	-
0.04	78	84	68	16	76	69. 2	67.0	NE	NE	148	0	
0.12	83	80	68	12	74	69.2	67.5	Е	SE	131	0	
9.99	76	88	67	21	78	72.5	70.0	NW	NW	157	0	-
9.88	72	75	61	14	68	62.3	59. 5	SE	N	119	. 19	-
9.97	67	79	56	23	68	58.9	55.0	NW	sw	131	0	
9.90	80	82	61	21	72	66.6	64.0	s	s	80	0	
9.96	94	76	66	10	71	69. 2	68. 5	N	N	83	.30	
0.12	82	78	62	26	75	68. 5	66. 5	N	0	83	0	
0.14	74	87	65	22	76	67.4	64.0	NW	N	81	0	l
0.12	72	86	66	20	76	68.3	64.5	N	0	100	0	-
0.08	78	87	64	23	76	68.3	66.0	N	N	78	0	
9, 94	78	94	68	26	81	74.3	72.5	0	w	77	0	
9.88	76	97	72	25	84	75. 8	73. 5	sw	w	83	0	
9.80	82	88	69	19	78	68.6	67.0	s	NW	145	. 05	Į
9.86	72	78	54	14	71	62.6	59.0	NW	sw	161	0	ı
9.92	74	88	59	29	74	64. 8	61.5	0	s	64	0	l
9. 91	85	91	62	29	76	68. 5	67.0	w	sw	71	0	ı
9. 97	82	92	61	31	76	66.3	65. 4	w	s	88	. 45	
0.10	81	74	60	14	67	62. 9	61.0	sw	N	189	.08	
0.21	74	74	56	18	65	60.4	66. 5	NE	w	110	0	
0.14	80	81	62	19	72	64. 4	62.0	w	sw	58	T.	
0.15	82	89	60	29	74	66. 1	64.0	sw	s	62	0	

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Table 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological con

			Co	mn	nun seas	ical es.	ole				rh	iar- eal eases					Vi	oler	ice.				
							ulosis.	ic.		e.	tery	sen- ex- led).	ns).	ms).	tion.		igence.		al.				
Day of month.	Color.	Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tulerculosis.	Meningitis epidemic.	Pellagra.	Rheumatism, acute.	Under 2 years.	2 years and over.	Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Accidents and negligence.	Suicides.	Homicides, criminal.	All other diseases.	Deaths, by color.	Total deaths.	Deaths under 1 year
1{	W. C. W. C.										1									7 3	8)	11{	
2{	W.				i		3										···			5	6)	16	
3{	W.	:::					3 1 1				2				1					7356533642161055339591955877435525544498333564211164761136777457856999155	8\ 3\ 6\ 10\ 8\ 6\ 9\ 6\	14	
4{	W.	1			1							1		i	•••					6	9)	15	
5{	W.						1 2 1 1							i						12	14)	23	
6{	W.						î				1							ï		10	14) 9) 13) 7) 7) 6)	20	
7}	W.				1									2			:::	:::		5	7	13{	
8{	W.						1 1 2 2					1		:::			i			9	10\	18{	
9}	w.	1							:::		1 2 1 2		1 1							5 9	100 88 127 138 8127 139 813 14 91 91 55 55 77 12 83 36 88 12 12 12 12 12 12 12 12 12 12 12 12 12	19	
){	w.				ï		1				1		1	2			ï			9	7)	21	
}	w.						1 1				2	i		ï			3			5 9	8) 14)	23	
2}	w.	···· 1			:::												1 1			8 7	9)	18	
3	w.			:::			1				1		i	1 1			1			4 3	9)	10	
}	w.	i															i		· · ·	5	5)	}	
5	C. W.						1							1						5	7)	12	
6}	C.						2							ï						4	7}	11{	
j	C.															:::	2			8	12 8	20{	
7	C.		:::				1						:::				1		ï	3	3}	9{	
8	C.				1		1 1 3				1			1 2		• • •		• • •	• • •	5	8)	20{	
9{	C.	· · ·					1				1		i					i	1	4 2	6	10	
0{	C.	1											· i·	i			i	2	i	11	15)	19	
1	C.		:::				1 2 2 1 1					1	1							16	17)	25	
2{	W.						2				2			2					 1	7	13)	24	
3	W.						1				1			2 3 1			ï			11	14)	19	
4	W.																	:::	:::	6	6)	13	
5	W.				1		2 2								:::		:::	•••		7	10	17	
6	W.										1			:::	:::		ï		:::	5	7 <i>f</i>	15	
7	W.						3				1			1		• • •	•••	•••	• • •	7 8	95	16	
8	w.						i								• • •		· i			5	5)	19{	
9	w.					1											1			9	11)	- }	
0	w.	1 1			1	ï	2				1									1 5	5)	14	
	1	-					1							i						5	8}	15{	
Total	{ W. C.	3			5 2	1	21 28				8	1 3	2 4	8 16	0		11	4 0	3 2	214	282) 217)	499{	

year 1916, arranged with reference to race, cause of death, and corresponding daily ditions—Continued.

SEPTEMBER.

		tion of	Direct wir			oulb).	xposed 1	rature (e	Tempe		
Rainfall (inches).	Total movement of wind.	8 p. m.	8 a. m.	Mean dew point.	Mean wet bulb.	Mean.	Range.	Minimum.	Maximum.	Mean relative humidity.	Mean barometer (actual).
0	87	s	s	64.5	67.0	78	25	65	90	78	0.11
0.01	145	N	NW	60.0	64.8	74	19	64	83	66	0.06
0	123	N	N	43.0	52.0	64	24	52	76	52	0.31
0	91	sw	sw	57.5	60.2	66	31	50	81	76	0.22
0	114	sw	s	66.5	69.0	78	25	65	90	76	0.07
.06	126	NE	0	69.5	70.1	72	8	68	76	90	0.02
T.	89	s	NW	69.0	70.0	78	17	70	87	90	9.96
.31	123	w	sw	69.0	69.8	80	25	68	93	88	9.88
T.	209	N	N	55.0	60.4	70	15	62	77	64	0.06
0	184	SE	NE	46.0	54.4	65	18	56	74	52	0.31
0	152	E	N	51.0	56.0	62	20	52	72	67	0.40
0	102	sw	N	56.0	59.0	64	23	52	75	76	0.29
0	79	s	SE	65.0	66.2	70	28	56	84	88	0.15
T.	94	SE	s	71.0	71.5	74	19	65	84	90	9.98
1.17	138	NW	sw	67.0	71.2	68	15	60	75	86	9.86
0	144	NW	NW	49.0	52.6	60	17	52	69	74	0.13
0	61	N	N	48.5	52.0	60	27	47	74	76	0.21
.18	101	NW	N	56.0	51.7	64	28	50	78	96	0.09
0	190	NW	NW	41.0	45.4	54	19	44	63	72	0.18
0	69	SE	w	45.5	49.0	58	33	41	74	75	0.19
0	91	SE	SE	51.0	53.8	59	30	44	74	80	0.02
. 46	125	s	SE	58.5	61.1	67	26	54	80	76	9.87
T.	136	NW	sw	52.5	57.2	70	21	59	80	70	9.94
0	147	sw	NW	49.5	54.2	63	20	53	73	67	0.02
0	151	w	w	51.0	53.2	60	19	50	69	80	80.01
0	53	S	N	53.5	55. 5	64	31	48	79	85	80.08
0	89	S	SE	56.0	59.8	70	30	55	85	71	30.06
0	164	s	sw	65.5	67.6	76	19	66	85	82	30.00
.38	197	w	s	56.5	58.4	61	22	50	72	88	29.92
0	244	NW	NW	38.0	43.4	52	16	44	60	68	30.21

Table 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological con

			Co	mn di:	nun seas	ica!	le				Di the dise	eases					Vi	olen	ce.				
							ulosis.	ic.		e.	(dy tery clud	sen- ex- ed).	ms).	rms).	tion.		ligence.		al.				ar.
Day of month.	Color.	Typhoid fever.	Measles.	Searlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.	Meningitis epidemic.	Pellagra.	Rheumatism, acute.	Under 2 years.	2 years and over.	Bronchitis (all forms)	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Accidents and negligence.	Suicides.	Homicides, criminal.	All other diseases.	Deaths, by color.	Total deaths.	Deaths under I year
1{	W.						1							:::						11 1	12\ 2\ 11\ 10\ 11\ 8\ 8\ 7\	14	1
2{	W.				1		1 1 2					••••		2			2 1 2			8	11 10	21	1 1 2
3{	W.						2				···i			2		:::	2	•••		9	8	19	2
4{	W.						1 2			····	1 1			1			··· i			8	8}	15	2 1 1 1 2
5{	C.				1		2	:::	:::	1	1	::::						:::	:::	4	4	17	-
6{	C.	···· i					:::			:::				···· 1		:::				4	13\ 4\ 3\ 4\ 11\ 3\ 9\ 4\ 8\ 10\	7{	
7{	C.															:::				3	3)	14{	
8	C.					:::	2 2 1 2	:::		:::					:::	:::			ï	1	4/	13{	
9{	C.			:::		i 	2				1						1	:::		7	10)	18{	
){	C.					:::								1 1 1		:::		:::		0	6) 17 17\ 8/ 15\ 9/ 9\ 6/ 7\ 5/	7{	
1	C.						1 1 1 2 1										1	 1		7	8	25	
2	C.					1	1				1		:::	1	1					7	9)	24	
3	C.	i												i				····		3	6)	15	
4	C.						1										1		:::	3	5)	12	
5	C.										1			1						2	4)	15	
6	C.						1 2 1				· · · · · i			ï					ï	4	8)	15{	
.7{	C.																			6	6)	15	
18	C.													ï				1		2	3)	8	
9	C.						1 2 1 1 1 1							1	:::		-:-			2	5)	22	
20	C.						1			:::	1 1 2				:::		1 1		:::	3	6)	14	
21	C.						i													1	2)	8	
22	C.												1	2			1			4	5)	11{	
23	C.					1		:::		:::	. 1	1		i	:::		1		:::	7	9}	21	
24	Č.		:::		: ::		. 2			:::			1				:::			6	9)	18{	
25	C.	1.					. 3	::						2			i		 i	6	11)	21	
26	C.						. i				. 1			1 1						2	5)	11	
27	C.			-						: ::			1					1		5	5)	10{	
28	C.						. 1	::	:::					1						1	3)	18	
29	C.	i					. 1	1::												3	5)	18	
30	W.C.W.C.W.C.W.C.W.C.W.C.W.C.W.C.W.C.W.C						. 2					. 1	1 1	1 2 1			1			$\begin{smallmatrix} 111849384743493715740478773638264764265331444976686425552112361134$	11\\ 47\\\ 89\\ 65\\ 51\\ 12\\ 9\\ 11\\ 15\\ 86\\ 21\\ 12\\ 9\\ 90\\ 11\\ 15\\ 15\\ 9\\ 15\\ 15\\ 9\\ 15\\ 15	15{ 24{	
Total.					. 1	3 0	_	-		. 1	9 6		-	10	1	-	13	4	1	234	303) 182)	485{	

year 1916. arranged with reference to race, cause of death, and corresponding daily ditions—Continued.

OCTOBER.

		Tempe	erature (e	exposed	bulb).			Direc wi	tion of nd.			
Mean Parometer (actual).	Mean relative humidity.	Maximum.	Minimum.	Range.	Mean.	Mean wet bulb.	Mean dew point.	8 a. m.	8 p. m.	Total movement of wind.	Rainfall (inches).	Day of month.
30. 40	69	62	38	24	50	41.2	35. 5	N	N	138	0	1
30.36	74	64	37	27	50	44.0	39. 5	N	NW	107	0	2
30.26	72	67	46	21	56	49.5	45. 5	N	NW	113	0	3
30.32	56	73	53	20	63	54.0	46.5	NE	NE	143	0	4
30.31	95	76	57	19	66	60. 6	59. 5	NE	SE	84	T.	5
30.17	91	81	60	21	70	64.8	64.0	sw	s	80	T.	6
30.18	82	83	59	24	71	60. 6	58. 5	0	N	75	0	7
30.10	86	87	55	32	71	62. 2	60.5	0	s	58	0	8
29.94	82	85	60	25	72	65. 6	63.5	S	NW	147	0.03	9
30. 29	58	60	37	23	48	40.0	32.5	N	NW	259	0.01	10
30. 26	65	64	36	28	50	41.8	35. 5	w	NW	76	0	11
30. 25	76	70	38	32	54	46.0	42.5	w	s	83	0	12
30.02	69	66	51	15	58	53. 2	49.0	s	w	167	.09	13
30. 21	60	60	40	20	50	41.8	35.0	w	NW	175	0	14
30.06	78	66	36	30	51	49.0	46.0	sw	sw	97	.02	15
29, 88	86	64	56	8	60	57. 0	56.0	w	N	63	.04	16
30.02	65	68	46	22	57	54.0	48.0	sw	N	252	T.	17
30. 41	66	57	37	20	47	42. 2	37.0	N	E	175	. 05	18
29, 88	92	75	48	27	62	63. 6	62.5	Е	s	272	1. 24	19
29.68	81	82	63	19	72	64. 2	61.5	s	sw	193	.02	20
29.89	57	64	44	20	54	42.4	34. 5	NW	NW	261	0	21
30.26	63	57	40	17	48	39. 6	33.0	NW	NW	141	0	22
30.40	69	60	40	20	50	40. 7	35. 5	N	N	141	0	23
30.32	84	65	37	28	51	43. 2	41.0	w	N	40	0	24
30.06	90	62	37	25	50	45. 6	44.5	N	sw	125	0	25
30,08	62	60	39	21	50	42. 2	35. 0	NW	N	155	0	26
30.19	68	64	35	29	50	40.8	34. 5	NW	sw	66 .	0	27
30.34	74	67	38	29	52	42.6	38.0	s	NW	70	0	28
30.32	86	67	36	31	52	45.8	44.0	w	s	67	0	29
30.13	92	68	49	19	58	56. 2	55. 5	N	N	65	0	30
29, 96	85	69	49	20	59	54.0	52.5	- 1	SE	80	. 26	31

Table 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological con

			Co	mm dis	uni	cab	le				Dia rhe dise	al					Vic	olen	ce.				
							ulosis.	nic.		te.	tery clud	ex-	ms).	rms).	stion.		gligence.		nal.				ar.
Day of month.	Color.	Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tul erculosis.	Meningitis, epidemic.	Pellagra.	Rheumatism, acute.	Under 2 years.	2 years and over.	Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Accidents and negligence.	Suicides.	Homicides, criminal.	All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.
1	W. C. W. C.					1					1	1	1	1 1 1 2 2 1 1 1 1 1 3 3 1 1 1 1 1 1 3 3 1 1 1 1	1		1 1 1 1 1 1 2 2 2 1 1 2 1 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		9 8 6 7 5 2 4 4 5 3 3 8 5 5 2 2 10 6 9 9 2 2 9 5 5 4 4 8 8 1 6 6 5 4 4 2 10 2 6 6 6 10 6 7 3 12 3 3 9 9 2 2 2 2 9 9 1 1 3 2 1 1 4 1 1 1 0 0 3 3 1 9	12) 10/77 8 \ \ 5 \ \ 6 \ \ 6 \ \ 11/1 \ \ 3 \ \ 13 \ \ 13 \ \ 8 \ \ 11/1 \ 10 \ \ 7/7 \ 19 \ \ 1 \ 10 \ \ 8 \ \ 11/1 \ 10 \ \ 8 \ \ 11/1 \ 10 \ \ 8 \ \ 11/1 \ 10 \ \ 8 \ \ 11/1 \ 10 \ \ 8 \ \ 11/1 \ 10 \ \ 8 \ \ 7/7 \ 10 \ \ 8 \ \ 11/1 \ 10 \ \ 8 \ \ 7/7 \ 10 \ \ 8 \ \ 11/1 \ 10 \	22{ 15 13 17 14 14 21 17 24 10 18 9 14 18 23 15 26 14 7 15 23 25 6 36 36	21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
27 28 29	WCWCWCWC					1						. 1	i	2 1 2 1 3	1		1	i		1 0 3 19 6 12 3 1 2 16 4 7 6	26\ 10\ 16\ 6\ 6\ 2\ 18\ 7\ 11\ 8\	22 8 25 19	1)
Total	$\left\{\begin{array}{c} c \\ c \\ \end{array}\right\}$		2 1		0) ;		1 .			2				2		. 19	10	• • • • •	247 113	341 187	528	177

year 1916. arranged with reference to race, cause of death, and corresponding daily ditions—Continued.

		Tempe	rature (e	xposed h	oulb).			Direct wir	ion of			
Meun barometer (actual).	Mean relative humidity.	Maximum.	Minimum.	Range.	Mean.	Mean wet bulb.	Mean dew point .	8a.m.	8р.т.	Total movement of wind.	Rainfall (inches).	Dow of month
30. 09	39	64	46	18	55	44. 2	30.0	NW	w	203	0.01	
30.15	56	71	37	34	54	44.0	35. 0	SE	sw	105	0	
30. 27	58	60	39	21	50	41. 2	33.0	NW	NW	187	0	
30.16	60	60	34	26	47	41.0	33.5	NW	SE	100	T.	
30. 22	77	60	42	18	51	43.3	39. 5	w	N	212	0	-
30.46	76	54	45	9	50	45.0	41.5	NE	E	132	0	
30, 47	74	60	46	14	53	46. 4	42.5	SE	s	113	0	
30.33	80	66	41	25	54	45.4	42.0	sw	S	91	0	
29.94	70	76	48	28	62	53.8	49. 0	s	sw	194	0	
30.06	55	61	44	17	52	44. 4	36.0	NW	s	127	.08	
30,38	68	63	37	26	50	41.8	35.5	sw	NE	102	0	
30, 34	88	53	40	13	46	47.0	45.0	NE	w	78	. 40	
30.04	100	55	50	5	52	52.1	52.0	N	s	93	. 01	-
29.92	75	59	42	17	50	48.0	43.5	NW	NW	232	T.	1
30.10	73	42	28	14	35	31. 2	26.0	N	NW	219	.10	
30, 30	55	37	24	13	30	24.2	15.0	NW	s	224	0	ŀ
30.06	56	51	28	23	40	33.2	25. 0	sw	SE	100	0	
30, 04	67	46	33	13	40	34. 2	28. 5	NW	sw	161	0	
29.98	57	56	32	24	44	34.2	26.5	sw	sw	107	0	
30,05	72	65	33	32	49	39.4	34.5	SE	N	115	0	1
30.42	58	46	29	17	38	32, 7	25. 0	N	sw	153	0	1
30, 30	81	50	26	24	38	35.1	32.0	sw	E	70	0	1
29.66	88	61	40	21	50	47.8	46. 5	SE	w	157	. 37	
29.82	46	52	34	18	43	36.4	25. 0	NW	NW	328	0	1
30, 32	41	37	28	9	32	25. 1	12.0	NW	w	250	0	
30. 53	48	43	26	17	34	27.0	16.5	NW	s	125	0	
30, 47	60	56	32	24	44	33.6	26.0	sw	s	104	0	
30.30	64	58	32	26	45	40. 2	42.5	sw	s	77	T.	1
30.12	90	57	47	10	52	51.3	50.0	s	s	94	.18	1
30.00	71	56	40	16	48	44.2	38.5	NW	NW	241	.96	

Table 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological con

			Со	mm dis	uni	ical:	le				Di- rhe dise	eal					Vic	olen	ce.				
							ulosis.	nic.		le.	(dy: tery clud	sen- ex- ed).	ms).	rms).	tion.		ligence.		al.				ar.
Day of month.	Color.	Typhoid fever.	Measks.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tul erculosis.	Meningitis, epidemic.	Pellagra.	Rheumatism, acute.	Under 2 years.	2 years and over.	Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Accidents and negligence.	Suicides.	Homicides, criminal.	All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.
ı{	W						· i ·					i								7 2 6 5 9 2 6 2 6 8 9 4 7 2	7} 5} 7} 9} 11\ 3 8\ 3} 9\ 8}	12	1 1
2{	C.		:::				1 1 2				i			·		:::				5	9}	16	1
3{	W.			:::								::::	:::	1 1 1				i	:::	9	3	14	
{	W.										::::		:::	· · ·	:::	:::	2	:::	:::	6 2	3)	11	
5{	W.						3							:::				:::		6 8	8	17	
3{	W.			:::	1		i						1	3 1 1 1			1.	1	:::	4	14} 9} 10} 5	23	
·····-{	W.		:::	:::					:::	:::	::::	···i	1 		:::	:::		:::	1	2	5/	18	
3{	C.			:::		1	1	:::			···i		1						:::	11	14) 8) 6)	17{	
{	C.		:::	:::	:::		1	:::	:::				i		:::	:::	1	:::	:::	1 7 4 7 2 7 6 10 2 7 6	8} f}	14	
{	C.			:::		1	1	:::	:::	:::		::::	:::		:::	:::		:::	:::	2	11\ 2\ 10\ 8\ 15\	13{	
{	C.	1		:::		1	2	:::		:::		::::	:::	1 1 2	:::	:::		 1	:::	6	8	18	
2{	C.								:::				:::	1	:::	:::			1	2	4	19	
3{	C.														:::	:::	:::			6	4) 9) 6)	15	
1	C.					i	3 2 2				1			 2 2		:::			:::	13	18) 9)	27{	
5	C.						2	:::	:::					2 1 3 1	:::	:::			:::	6	14) 8)	22	
3	C.						1							3	:::		1 1	2		3	11\ 8\ 10\	19	
7	C.	1											:::					:::		2	13 13	13{	
8	C.						. 1			:::				3	:::	:::	1 1 1	:::		6	11)	24	}
9	C.											1						1	1	4	10) 7) 9) 8)	17{	
00	Ç.			:::		:::	. 1			:::				2			1	2		6	8}	17	
1	C.		:	1::		. ::	-	1::		:::				2			3	2		3	11}	16	
2	{ C.				:::	: ::	. i	::		:::	i			1						7	10}	26	
3	Ç.		:::	:::		:::	. i										1 2			0	2)	13	
4	C.				: ::			:::												4 12 6 8 8 3 7 2 11 6 6 6 6 8 8 3 3 7 2 9 0 0 13 7 7 8 8 8 4 4 4 6 6 1 7 7 8 8 8 8 8 4 4 4 4 6 6 8 8 8 8 8 8 8 8 8	7}	22	
5	C.						. 4				. 1			1 2 1 1 2			1 2	1		4	8	24	1
6	C.						. 1					. 1	1 2	1						6	8)	14	
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9	} C.						-						1	1 2				1		6	6	174	
30	{ C.	1		-	-	-	. 1	-									1			6 7 6	8	23	}
30 31	W.C.W.C.W.C.W.C.W.C.W.C.W.C.W.C.W.C.W.C													2			1		1	6 10 2	11\\ 16\\ 15\\ 8\\ 8\\ 15\\ 15\\ 8\\ 7\\ 11\\ 5\\ 8\\ 8\\ 7\\ 15\\ 8\\ 7\\ 11\\ 15\\ 8\\ 7\\ 11\\ 15\\ 8\\ 7\\ 11\\ 15\\ 8\\ 7\\ 11\\ 15\\ 15\\ 15\\ 15\\ 15\\ 15\	15	
	1		-	-	-	-		-					-	-					-				-
Total	{ W.	1				3	2:	1:	: ::		. 1	3	5 3	27 26			17	8 2	1 6	270 131	360) 200}	560	{

year 1916. arranged with reference to race, cause of death, and corresponding daily ditions—Continued.

DECEMBER.

		ion of ad.	Direct wir			oulb).	exposed l	rature (e	Tempe		
Rainfall (inches).	Total movement of wind.	8 p. m.	8a.m.	Mean dew point.	Mean wet bulb.	Mean.	Range.	Minimum.	Maximum.	Mean relative humidity.	Mean I arometer (actual).
0	107	sw	sw	27. 0	32, 8	39	12	33	42	66	30.01
0	199	w	w	23. 0	36. 2	42	19	33	52	42	30.06
T.	74	SE	sw	31.0	35. 4	40	21	29	50	76	30. 22
. 02	89	s	N	38.5	43.0	50	25	37	62	74	30.07
T.	187	sw	SE	46.0	51.5	62	18	53	71	68	29, 76
0	451	w	w	17.5	35.3	48	10	43	53	30	30.04
0	125	w	sw	27. 5	36.0	48	20	38	58	54	30.18
0	96	E	N	31.5	40.3	52	23	40	63	54	30.01
. 23	248	NW	s	36.0	42.4	44	25	32	57	70	29.94
0	136	N	w	14.5	46.2	36	17	27	44	46	30, 32
. 24	61	w	SE	30, 5	32. 5	31	10	26	36	86	29, 97
. 76	192	sw	NW	26.5	30, 8	35	8	31	39	74	29, 63
. 06	232	NW	S	15. 5	24.2	34	17	25	42	57	29, 96
0	192	SE	NW	13. 5	22, 2	27	10	22	32	56	30, 26
. 22	200	NW	SE	22.0	25. 7	28	8	24	32	77	29, 74
0	377	S	NW	4.5	13. 4	18	11	13	24	57	29, 86
0	76	N	w	16.0	22.0	27	26	14	40	68	29, 87
. 25	134	N	sw	18.0	20. 2	22	9	18	27	87	29, 88
T.	197	NE	NW	9.5	16.2	20	8	16	24	65	29, 94
1.14	105	SE	SE	19.0	26.4	28	22	17	39	60	30.02
. 20	66	N	N	35.0	35. 4	38	10	33	43	95	29, 98
1.23	368	NW	N	25.5	31.4	37	12	31	43	71	30.18
0	118	sw	w	20.0	28. 2	36	17	27	44	56	30.14
T.	102	SE	NE	23.0	29.6	32	13	25	38	62	30, 10
0	220	NW	NW	24.5	33.6	36	14	29	43	53	30.18
0	115	E	N	19.5	25.6	32	16	24	40	67	30.50
.11	97	SE	E	34.5	36.2	36	8	32	40	88	30, 20
.57	171	NW	NW	31.0	37. 2	41	6	38	44	79	30.08
0	215	N	NW	12.0	25.0	32	15	24	39	42	30.40
0	80	w	sw	16.0	21.2	26	12	20	32	74	30.42
0	134	s	w	15.5	21. 6	26	11	21	32	64	30,44

Table 3.—Deaths and average age of decedents in the District of Columbia, arranged according to age, sex, and race, with percentages to total corresponding mortality, from 1901 to 1916, inclusive.

WHITE MALES.

	All	ages.	5 3	years and ove	ЭГ.
Year.	Deaths.	Average age.	Deaths.	Average age.	Percentage to all deaths.
1901-1905 1 1907-1910 1 1911-1915 1 1911 1912 1913 1914 1915	1,875 2,021 2,229 2,089 1,976 1,987 1,955 2,137 2,214	Yr. mo. d. 41 8 7 43 11 17 47 7 8 46 0 28 46 5 3 47 4 26 49 9 28 48 3 16 48 7 6	1,487 1,633 1,725 1,739 1,658 1,678 1,712 1,837 1,911	Yr. mo. d. 52 3 24 54 3 1 55 10 13 55 2 23 55 2 19 56 0 2 56 9 23 56 1 0 56 2 11	79.3 80.8 85.0 83.2 83.9 84.4 87.5 85.9

	20	years and ov	er.	40	years and ov	er.
Year.	Deaths.	Average age.	Percentage to all deaths.	Deaths.	Average age.	Percentage to all deaths.
1901-1905 ' 1906-1910 : 1911-1915 ' 1911 1912 1913 1914 1915 1915 1916	1, 398 1, 548 1, 650 1, 665 1, 587 1, 603 1, 642 1, 754 1, 824	Yr. mo. d. 54 9 29 56 6 20 58 0 12 57 1 15 58 0 13 58 8 20 58 2 3 58 3 29	74. 56 76. 58 81. 32 70. 12 80. 31 80. 67 83. 99 82. 08 82. 38	1, 057 1, 217 1, 342 1, 322 1, 261 1, 303 1, 371 1, 451 1, 511	Yr. mo. d. 62 9 9 63 7 6 63 11 27 63 11 11 63 9 12 64 2 28 64 2 8 63 9 19 64 0 8	56, 37 60, 61 66, 14 63, 28 63, 81 65, 57 70, 13 67, 89 68, 24

WHITE FEMALES.

	All	ages.	5 3	years and ov	er.
Year.	Deaths.	Average age.	Deaths.	Average age.	Percent age to al deaths.
1901-19051 1908-19101 1911-1915 1 1911-1911 1912 1913 1914 1915	1, 519 1, 605 1, 636 1, 650 1, 630 1, 581 1, 538 1, 781 1, 739	Yr. mo. d. 43 5 16 45 5 27 49 7 10 47 0 17 50 1 4 48 2 26 50 7 16 52 0 19 51 9 7	1, 221 1, 308 1, 405 1, 357 1, 412 1, 340 1, 343 1, 575 1, 508	Yr. mo. d. 52 3 14 55 7 22 57 5 19 57 0 17 56 10 12 56 9 6 57 10 23 58 9 7 59 6 28	\$0.3 \$1. \$5.5 \$2.3 \$6.

	20	years and ov	er.	40	years and ov	er.
Year.	Deaths.	Average age.	Percent- age to all deaths.	Deaths.	Average age.	Percent- age to all deaths.
1901-1905 1 1903-1910 1 1911-1915 1 1911 1 1912 1 1913 1 1914 1 1915 1 1916 1	1, 144 1, 299 1, 337 1, 288 1, 347 1, 263 1, 281 1, 504 1, 446	Yr. mo. d. 56 6 0 58 4 18 59 11 11 59 5 5 59 11 2 59 4 22 60 1 2 60 10 26 61 6 27	75. 31 76. 56 81. 72 78. 06 82. 62 79. 89 83. 29 84. 45 83. 15	867 981 1,133 1,037 1,102 1,020 1,263 1,245 1,236	Yr. mo. d. 64 11 6 65 3 6 66 7 1 66 6 24 66 6 10 66 2 20 66 4 5 67 3 6 66 10 10	57. 0 61. 0 69. 2 62. 8 67. 0 64. 5 82. 1 69. 9 71. 0

¹ Annual average for 5-year period.

Table 3.—Deaths and average age of decedents in the District of Columbia, arranged according to age, sex, and race, with percentages to total corresponding mortality, from 1901 to 1916, inclusive—Continued.

	COLOR	RED MAL	ES.			
		All	ages.	5 ;	years and ov	er.
Year.		Deaths.	Average age.	Deaths.	Average age.	Percentage to all deaths.
1001-1905 1 1905-1910 1 1911-1915 1 1911 1912 1913 1914 1915 1916		1, 332 1, 375 1, 289 1, 319 1, 348 1, 253 1, 214 1, 311 1, 310	Yr. mo. d. 28 2 28 30 7 22 34 4 14 33 0 6 33 11 26 34 7 26 34 10 21 35 3 22 36 9 24	851 957 981 986 1,021 939 930 1,027 1,046	Yr. mo. d. 43 1 21 43 8 11 45 0 18 43 11 6 44 7 26 45 11 23 45 3 26 45 4 9 45 11 3	63. 89 69. 61 76. 11 74. 75 75. 74 74. 94 76. 60 78. 41 79. 85
	20	years and o	ver.	40	years and ov	er.
Year.	Deaths.	Average age.	Percentage to all deaths.	Deaths.	Average age.	Percentage to all deaths.
1901-1905 1 1906-1910 1 1901-1915 1 1911-1915 1 1912-1913 1 1914 1 1914 1 1915 1 1916 1	761 869 910 901 931 880 878 961	Yr. mo. d. 46 6 15 46 9 17 47 5 28 46 10 4 47 8 1 48 2 7 47 2 3 47 7 8 47 11 13	57. 88 63. 21 70. 60 68. 31 69. 06 70. 23 72. 32 73. 30	475 525 579 548 603 573 551 618 628	Yr. mo. d. 57 8 2 57 8 4 57 2 20 57 7 8 56 11 4 57 7 28 57 1 4 56 9 26 57 5 24	35. 56 38. 19 44. 92 41. 55 44. 73 45. 73 45. 38 47. 14 47. 94

COLORED FEMALES.

	All	ages.	5 3	years and ov	er.
Year.	Deaths.	Average age.	Deaths.	Average age.	Percentage to all deaths.
1901-1905 1 1865-1910 1 1911-1915 1 1911-1912 1 1912 1 1913 1 1914 1 1914 1 1915 1 1916 1	1,315 1,304 1,234 1,245 1,305 1,185 1,159 1,276 1,231	Yr. mo. d. 29 4 17 31 0 7 35 1 27 33 6 22 33 8 18 34 11 3 36 3 26 37 3 5 37 3 4	898 930 965 919 988 919 951 1,046	Yr. mo. d. 40 11 27 43 1 23 44 7 25 45 2 7 44 3 10 44 10 12 44 1 5 45 1 1 .45 8 20	68. 29 71. 32 78. 20 73. 81 75. 71 77. 55 82. 05 81. 97 81. 15

	20	years and ov	er.	40	years and ov	er.
Year.	Deaths.	Average age.	Percentage to all deaths.	Deaths.	Average age.	Percentage to all deaths.
260 -1005 1 200-1010 201-1915 301-1915 301 302 303 304 305 306 307 307 308 309 3	764 814 865 828 876 829 840 952 894	Yr. mo. d. 47 1 1 47 3 27 48 3 20 48 7 21 48 1 27 48 3 1 48 0 25 48 4 28 49 5 9	58. 10 62. 43 70. 09 66. 51 67. 13 69. 96 72. 47 74. 61 72. 62	471 496 556 533 555 527 539 626 598	Yr. mo. d. 57 8 1 57 6 1 58 8 22 59 5 11 58 8 24 58 11 5 58 2 9 58 4 3 59 3 1	35. 82 38. 00 45. 06 42. 81 42. 53 44. 47 46. 50 49. 06 48. 57

¹ Annual average for 5-year period.

Table 4.—Decedents (stillbirths excluded) in the District of Columbia under 1 year of age, by race, age, and by months, during calendar year 1916.

Age. — Under 1 day	White. 5 7 6 3 1	Colored.	White.	Colored.	White.	Colored.	White.	Colored.
day to 1 week week to 1 month to 2 months to 3 months to 4 months to 5 months to 6 months	6 3	6 2						
day to 1 week week to 1 month to 2 months to 3 months to 4 months to 5 months	6 3	6 2		5	10	1	10	
week to 1 month to 2 months to 3 months to 4 months to 5 months to 6 months	6 3	2	11	4	6	4	1	
to 3 monthsto 4 monthsto 5 monthsto 6 months			5	6	6	1	1	
to 4 months to 5 months to 6 months	1	1	3	2	2		3	
to 5 months		1	1	2	2 2	5	3	
to 6 months			3		2	1	2	
to 6 months	2	2	3	1	2	1	1	
	1 3			1	1	1	2 2	
to 8 months	1	2	1	1	2	2	-	
to 9 months		1	1		2	2	2	
to 10 months	1	î		1		3		
to 11 months		î	1	2		1	2	
to 12 months	1		2	2 2		4	1	
Total	31	21	36	26	33	25	30	
1	01			20		-		
Ago	Ma	ıy.	Ju	ne.	Ju	ly.	Aug	gust.
Age.	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored
Inder 1 day	7	4	10	2	10	4	6	
day to 1 week	6	5	4	5	11	3		
week to 1 month	6	2	6		3	2	2 6	
to 2 months	4		1	2	ĭ	7	3	
to 3 months	3	3	ī	2	3	4	3 7 3	
to 4 months	1	2		1	1	7	3	
to 5 months	2	2		2	5	1	3	
to 6 months		2	1		4	8	3	
to 7 months	1			3	2	8	4 4	
to 8 months	2	2	2 3	1 3	2 2 3	2 5	2	
to 10 months	2	4	3	3	7	J	-	
0 to 11 months	1	1			2	2		
1 to 12 months		î		1	ĩ	3	4	
Total	33	28	28	22	55	56	47	
	Septe	mber.	Oet	ober.	Nove	mber.	Dece	mber.
Age.	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colore
Jnder 1 day	10	5	10		3		9	
day to 1 week	10	14	10	7	4	3	2 8	
week to 1 month	4		3	3	4	2	6	
to 2 months		2	3	4	3	2		
to 3 months	4	2	3 3 3	3 3	1	2	5	
to 4 months	1	2 2 2 8 2 2	3	3	ī	2 3 2 2 2 2 1	1	1
to 5 months	2	2	1				1	
to 6 months	3		2			1	2	1
to 7 months	2	1 1	2 2 2	4		1	1	
to 8 months	4	1 2	2	1 2	1	1		
to 10 months	1	2		2		2		
10 to 11 months	1	1				2	1	1
1 to 12 months		1		. 1			1	
Total	36	40	90			10	28	-
rotal	36	42	39	30	17	19	28	

Table 4.—Decedents (stillbirths excluded) in the District of Columbia under 1 year of age, by race, age, and by months, during calendar year 1916—Continued.

SUMMARY.

		Deaths.		Pe	ercentage of	[
Age.	White.	Col- ored.	All.	White decedents under 1 year of age.	Colored dece- dents un- der 1 year of age.	All decedents under 1 year of age.
Under 1 dov	89	43	132	21.55	12.18	17, 23
1 day to 1 week	74	62	136	17.92	17.56	17, 75
1 week to 1 month	56	28	84	13.56	7.93	10, 97
1 to 2 months	26	24	50	6.30	6.80	6.53
2 to 3 months	34	29	63	8. 23	8, 21	8.23
3 to 4 menths	18	27	45	4.36	7.65	5.88
4 to 5 months	22	14	36	5.32	3.97	4.70
5 to 6 months	19	21	40	4.60	5.95	5.22
6 to 7 months	17	25	42	4.12	7.08	5.48
7 to 8 months	16	18	34	3.87	5.10	4.44
8 to 9 months	16	18	34	3.88	5.10	4.44
9 to 10 months	9	17	26	2.18	4.82	3.39
10 to 11 months	7	12	19	1.69	3.40	2.48
11 to 12 months	10	15	25	2.42	4.25	3.26
Total	413	353	766	100.00	100.00	100.00

Table 5.—Number and age of decedents in the District of Columbia 70 years of age and over during the calendar year 1916.

	Wh	ite.	Colo	red.			Wh	ite.	Colo	red.	
Age (years).	Male.	Fe- male.	Male.	Fe- male.	Total.	Age (years).	Male.	Fe- male.	Male.	Fe- male.	Total.
70	41	49	32	29	151	87	5	5	4	3	17
11	27	29	8	12	76	88	7	10	4 3		20
72	52	35	10	12	109	89	1	8			ç
73	43	55	3	4	105	90	6	8 5 6 3	4	2	17
74	46	28	10	8	92	91	1	6	1		8
0	64	47	19	8	138	92	4			1	
6	53	41	9	8	111	93	2	3		1	(
	33	41	4	3	81 75	94	2			1	
8	39	33	2	1	75	95	1	2	2	3	
9	29	22	4 2 2 7	4	57	96	2	3	1	2	1
0	38	31	7	9	85	97	1	1			
2	17	22		4	43	98		3			
3	24	24	4	6	58	99				1	
1	20	15		5	40	100				2	
5.	16	16		1	33	110				1	
86	11	17	3	2 7	33				101	140	1 405
	9	4	3	7	23	Total	594	558	131	140	1,42

Table 6.—Number of deaths in hospitals and other public institutions in the District of Columbia during the calendar year 1916.

Place of death.	White.	Colored.	Total.
Baby Hospital Camp.	5	9	
hevy Chase Sanitarium.	4	3	
olumbia Hospital.	31	32	
hildren's Hospital.	56	39	
asualty Hospital.	51	55	1
amp Pleasant	91		
amp Pleasant	1	2	
onvent of Good Snepherd	1		
onvent of Good Shepherd piscopal Eye, Ear, and Throat Hospital.	8		
inergency Hospital. reedmen's Hospital.	166	71	
reedmen's Hospital	7	292	
lorence Crittenden Home	4		
eorgetown Visitation Convent	4		
Farfield Hospital	76	67	
eorgetown Hospital	115	28	
eorge Washington Hospital	94		
eorge Washington Hospital louse of Mercy.	1		1
Iome for Aged and Infirm	10	19	
nterstate Old Folks Home.		1	
ohn Dickson Home.	4	1	
ittle Cietage of the Deer		10	
little Sisters of the Poor	30	13	
ouise Home	3		
Methodist Home for Aged	1		
National Homeopathic Hospital	28	15	
National Lutheran Home	4		
National Training School (boys)	1		
Presbyterian Home. Providence Hospital.	1		
Providence Hospital	156	26	
Ruppert Home	6		
Ruppert Home. t. Vincent's Orphan Asylum	1		
St. Anns Asylum	32		
t. Anns Asylum. Sibley Hospital	123	1	1
t. Elizabeth	285	95	1
Cuberculosis Hospital	82	134	
United States Soldiers' Home.	84	2	
Inited States Noval Hospital	13	1	
Juited States Naval Hospital	13	1	1
Vashington Home for Foundlings	1		
Vashington Sanitarium Mission Hospital. Vashington Home for Incurables.	1		
washington Home for Incurables	9		
Washington Cancer Sanitarium	3		
Washington Asylum Hospital.	69	204	
Walter Reed General Hospital	44	1	
m . 1			2
Total	1,614	1,107	1 2

Table 7.—Deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged according to the last residence of decedent.

	Pulm tube los	onary reu- is.	Pneur (all fo	monia rms).	Brone	hitis.	Pulm	onary tion.	Dipht	heria.	Sca fev	rlet er.
District.	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.
1 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 7 7 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19 10 10 10 10 10 10 10 10 10 10 10 10 10	10 3 28 28 29 9 9 23 31 11 11 12 6 4 4 11 11 12 6 4 4 11 11 12 13 13 14 16 16 17 18 19 10 11 11 11 11 12 13 13 13 13 13 13 13 13 13 13	13	2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 1 1 1 1	3 3 1 2 2 2 3 3 3 3 1 1 2 2 2 3 3 3 3 1 1 2 2 2 3 3 3 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1 2 1	1

Table 7.—Deaths (stillbirths excluded) in the District of Columbia during the fiscal year 1916, according to the last residence of decedent—Continued.

Table 7b.—Showing distribution of deaths (stillbirths excluded) arranged according to race, and according to streets and alleys and vital statistics districts, during the calendar year 1916.

			Dea	ths.		
Statistical district.	Wi	iite.	Colo	ored.	То	tal.
	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.
	131		106	4	237	
	81		64	11	145	1
	156		78	19	234	
	11		33	2	44	
	101		230	17	331	
	242		63	11	305	
	137		25	1	162	
	171	7	38	21	209	
	210		241	57	451	
	191	1	84	13	275	
	14 35		139	21	153	
	35		98	6	133	
	65		24		89	
	218		71	14	289	
	171		60	14 3 3 5	231	
	74		39	3	113	
	158		50	3	208	
	127		50	5	177	
***************************************	41		50 27 42		68	
	50		42	3	92	
	11		11		22	
	2		28		30	
	6		28 2 1		8	
	16		1		17	
	40	1	64 92	1	104	
	275		92		367	
	38		53		91	
***************************************	7		7		14	
	11				11	
*******************************	18		19		37	
	36		2 3		38 43	
	40		3		120	
	81		39	6		
	17	1	148	0	165 207	
***************************************	134		73 16		160	
***************************************	144		10		93	
***************************************	87		0		34	
	31	1	6 3 6		20	1
*****************************	14 23				27	
			8 1 2 8 16		82	
	74 12		8		13	
***************************************	68		1		70	
***************************************	73		8		81	
***************************************	6		16		22	
***************************************	24		11		35	
***************************************	10		3		22	
	19 87		3 47	5	134	
***************************************	19	3	21		40	
***************************************	121		38	1	159	
***************************************	12		5		17	
***************************************	3				3	
	3 7		4		11	
Total						
	3,940	13	2,303	238	6, 243	2

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Table 7c.—Relative prevalence of certain diseases among the street and alley populations in the District of Columbia since the calendar year 1905.

					NHIT:	Е.								
				Dip	htheria	١.		Scar	let feve	r.	Т	yph	oid feve	er.
Year.	Population.		Deaths		Death rates.		Deaths.		Death rates.		Deaths.		Dea	
-	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.
905		225, 689	2	29	115.0	12.8		7		3.1	1	90	57.5	39.8
906. 907. 908. 909. 910 1. 911 1. 912.	1,475 1,618 1,608 1,455 1,302 1,149 994	231, 928 240, 302 244, 253 247, 206 250, 158 253, 111 254, 159		23 15 30 26 16 15 22		12.3 10.5 6.4		8		. 9 3.3 8.5 3.2 1.6 1.6 5.1	1	76 88 67 49 46 49 34	67.8	32. 8 36. 6 24. 9 19. 8 18. 4 19. 3
1914 1915 1916		258, 052	1	21 26	103.6	8.1		7 5		2.7		20 25		7.
	1			C	OLOR	ED.	-				-			
1905	. 16, 659	79, 036	2	13	12.04	16. 4	2	2	12.0	2.5	7	44	42.0	55.
1906 1907 1908 1909 1910 ¹ 1911 ¹ 1912 1913	14, 217 13, 682 13, 086 12, 490 11, 894 10, 328	81, 324 83, 266 83, 460 84, 567 85, 675 86, 782 87, 816	1 1 3	3	6.7 7.0 21.9	7. 4 7. 2 12. 0 3. 5 3. 5 4. 5				1. 2 6. 0 3. 5	3 3 4 3 3 3 1	34 33 43 29 25 26 21	20. 2 21. 0 29. 2 22. 9 24. 0 25. 2 9. 7	41. 39. 51. 34. 29. 29. 23.
1915 1916	. 8,638	90, 171	. 1	7 6		7.8		1		1.1	i	22 20		24:

WHITE.

	Den		,	Whoopi	ng cough		Diarrhea (under 2 years).					
Year.	Population.		Deaths.		Death rates.		Death	ıs.	Death rates.			
	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.		
905	1,739	225,689		27		11.9	2	124	115.0	54		
907. 908. 909. 910 ¹ 911 ¹ 912. 913.	1,475 1,618 1,608 1,455 1,302 1,149 994	231, 928 240, 302 244, 253 247, 206 250, 158 253, 111 254, 159	1 1 1	14 9 13 9 15 19	67. 8 62. 2 87. 0 100. 6	6.0 3.7 5.3 3.6 6.0 7.5	6 4 1 3 2	121 154 90 120 121 75 85	406.8 247.2 62.2 230.4 174.0	77 6: 36 48 48 29 33		
915. 916.	888	258,052	1 1	8 16	103.0	3.1		71 74		2		

1905		79,036	18	28	108.0	35.4	57	154	342.2	194.8
1906	14,864	81,324	1	17	6.7	20.9	40	158	269.1	218.9 157.3
1908	13,682	83, 266 83, 460	3	23 13	42. 2 21. 9	27.6 15.6	44 44	131 115	309. 4 321. 6	137.8
1910 ¹	12,490	84,567 85,675	6 2	20 11	45.9 16.0	23.6 12.8	44 19	136 114	336. 2 152. 1	133.1
1912 1913		86,782 87,816	7 2	37 12	58. 8 19. 4	46.2 13.7	15 12	95 111	126.1 116.2	109.4 126.4
1914. 1915.	8,638						10	86	115.8	93.4
1916			3				5	96		

^{&#}x27; Annual average for 5-year period.

 $\begin{array}{l} {\rm Table} \ \ {\rm 7c.} - Relative \ prevalence \ of \ certain \ diseases \ among \ the \ street \ and \ alley \ populations \\ in \ the \ District \ of \ Columbia \ since \ the \ calendar \ year \ 1905-- Continued. \end{array}$

	IT	

				44 111 1	. 15.					
	D	1.4**		Pnet	ımonia.			Bron	chitis.	
Year.	Popu	ılation.	Dea	aths.	Death	rates.	Deat	hs.	Death	rates.
	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.
1905	1,739 225,689		1	1 225		99.7		49		21.7
1906 1907 1908 1909 1910 ¹ 1911 1912 1913 1914 1915	1,618 1,608 1,455 1,302 1,149 994	231, 928 240, 302 244, 253 247, 206 250, 158 253, 111 254, 159 258, 052	4 2 5 4	227 228 288 278 278 250 205	271. 2 123. 6 310. 9 274. 9 87. 0 201. 2	97.9 94.9 117.9 112.5 111.1 98.8 80.6	1 1 1	59 56 52 82 49 50 58	61.8 62.2 68.7	25.4 23.3 21.3 33.2 19.6 19.8 22.8
1916		200,002	1	304				39		20. 2
				COLOR	ED.					
905	16,659	16,659 79,036		248	336.1	313.7	16	75	96.0	94. 9
1907. 1908. 1909. 1910. 1911. 1912. 1913.	14, 217 13, 682 13, 086 12, 490 11, 834 10, 328	81, 324 83, 266 83, 460 84, 567 85, 675 86, 782 87, 816	63 60 60 70 47 33 45	245 215 245 255 263 241 232	423.8 422.0 432.8 534.9 376.3 277.5 435.7	301.3 258.2 290.3 301.5 206.9 277.7 264.2	16 12 11 12 3 8 5	72 55 47 43 35 37 36	107.6 84.4 79.3 91.7 24.0 67.2 48.4	88.5 66.1 56.3 50.8 40.9 42.6 40.9
1915	8,638	90,171	32 39	306 260	370.4	339.4	4	31 37	46.3	34.4

WHITE.

	Popu	lation.	Pτ	ılmonar	y conges	tion.	Puln	nonary	tuberculo	sis.
Year.	Тора	ластоп.	Dea	aths.	Death	rates.	Deat	hs.	Death	rates.
	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.
1905 1906	, , , , ,	225,689		17		7.5	1	352	57.5	115.9
1907.		231,928 240,302		37 26		15.9 10.8	3 1	317 300	203.4 61.8	136. 7 124. 8
1910 1	1,608	244, 253 247, 206		30 24		12.3 9.7 7.6	3 3 1	296 317 326	186.5 206.2 76.8	121. 2 128. 2 130. 3
1913	1,149	250, 158 253, 111 254, 159		19 22 9		8.7 3.5	2 2	303 314	174.0 201.2	119.7 123.5
1914. 1915. 1916.		258,052						296 275		114.7
-		-		COLOR						
1905							1		1 -04.0	479.4
1306	10,659	79,036	6	17	39.0	21.5	94	379	594.3	479.4
1908	14,864 14,217	81,324 83,266	1 2	15 15	6.7 14.1	18.4 18.0	85 91	343 319	571.9 640.1	421.8 383.1
19101	13,682	83,460	2 2 3	8 3	14.6 22.9	9.6 3.5	85 90	362 353	621.3 687.8	433.7 417.4
1919	12,490	84,567 85,675 86,782	3	8 9	24.0	9.3 10.4	53 79	344 341	424.3 664.2	401.5 392.9
1914	10,328	87,816	17	12	164.6	136.6	52	309	503.5	351.9
1915. 1916.	8,638	90, 171					56 37	346 334	648.3	383.7

¹ Annual average for 5-year period.

Table 8.—Places of interment or other disposition of remains in the District of Columbia during the calendar year 1916.

Places of interment.		dying in Di Columbia.	strict of	Persons b	rought into f Columbia	District .
- 1	White.	Colored.	Total.	White.	Colored.	Total.
Ahove Sholum	16		16	2		2
Adas Israel	307 9	48 88	14 355 97	25	4	29
CongressionalElesavetgradd	519		519	58		58
Georgetown College	386		386	83		83
Georgetown Convent	4 89	14	103	8	_2	10
Harmony Lee's Crematorium Mount Olivet	39 582	183	466 39 765	14 69	54	54 14 83
Municipal Crematorium Mount Zion	81 2	178 200	259 202	13	14	13
Methodist Moore's	25	131	25 131	6	4	6
Macedonia National Capital Hebrew	22	3	3 22			30
Oak Hill Prospect Hill Potter's Field	120 137 3	2	120 137 5	30 16		1
Rock Creek	357	390	390 357	96	21	2 9
Sent out of city	938 72	404 35	1,342 107	39	9	4:
St. Mary's St. Agnes Chapel (National Cathedral) Palmud Torrah	89		89 11	8		
United States Soldiers' Home Union Baptist.	81	71	83 71		4	
Veitch Washington Hebrew Woodlawn	25 20	326	25 346	1 4 1	21	2
ii oogian ii	3,953	2,541	6,494	474	147	62

Table 9.—Estimated population, deaths (stillbirths excluded), and death rate in the District of Columbia, by race and calendar years, from 1901 to 1916.

Year.	1	Population	ι.		Deaths.		I	eath rate	S.
I cai.	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.
1901-1905 ¹ 1906-1910 ¹ 1911-1915 ¹ 1911-1915 ¹ 1912- 1913- 1914- 1915- 1916-	217, 606 240, 244 255, 162 251, 409 254, 260 255, 153 256, 049 258, 940 260, 854	93,719 96,696 98,281 98,159 98,676 98,144 97,615 98,809 99,143	311, 325 336, 940 353, 443 349, 568 352, 936 353, 297 353, 664 357, 749 359, 997	3,395 3,626 3,665 3,739 3,606 3,568 3,493 3,918 3,953	2,647 2,678 2,523 2,564 2,653 2,438 2,373 2,587 2,587	6,042 6,304 6,188 6,303 6,259 6,006 5,866 6,505 6,494	15. 60 15. 09 14. 35 14. 87 14. 18 13. 98 13. 64 15. 13 15. 15	28. 20 27. 69 25. 63 26. 12 26. 89 24. 84 24. 31 26. 18 25. 63	19. 4 18. 7 17. 4 18. 0 17. 7 16. 9 16. 5 18. 1

¹ Annual average for 5-year period.

Table 10.—Deaths (stillbirths excluded) in the District of Columbia of children under 1 year of age, by sex and color, and by months and years.

			Janu	ary.					Febr	uary					Ma	rch.		
Calendar year.	,	Whit	e.	С	olore	ed.	,	Whit	e.	C	olore	ed.		Whit	e.	C	olore	ed.
	M.	F.	т.	м.	F.	T.	М.	F.	т.	М.	F.	T.	М.	F.	т.	М.	F.	т.
1901-1905 ¹ 1906-1910 ¹ 1911-1915 ¹ 1911 1912 1913 1914 1915.	21 19 16 18 18 20 11 12 20	16 15 13 17 20 13 11 7	37 34 29 35 38 33 22 19 31	30 22 17 21 20 14 15 16 15	22 19 15 16 17 22 10 9 6	52 41 32 37 37 36 25 25 21	21 21 18 14 22 21 15 17 20	18 15 13 9 12 14 14 17 16	39 36 31 23 34 35 29 34 36	28 21 19 22 11 20 25 17 13	21 18 15 16 17 16 18 8 13	49 39 34 38 28 36 43 25 26	26 25 21 15 30 19 21 20 18	16 19 15 18 17 11 20 8 15	42 44 36 33 47 30 41 28 33	22 30 18 12 12 21 13 32 10	18 21 14 12 17 15 12 16 15	40 51 32 24 49 36 28 48 28
			Ap	ril.					М	ay.					Ju	ne.		
Calendar year.	,	Whit	e.	C	olor	ed.	,	Whit	е.	C	olor	ed.		Whit	e.	C	olore	ed.
	М.	F.	т.	М.	F.	T.	M.	F.	T.	M.	F.	т.	M.	F.	T.	M.	F.	T.
1901-1905 1 1906-1910 1 1911-1915 1 1911 1911 1912 1913 1914 1915	17 20 19 22 25 16 16 17 18	14 15 13 16 13 14 7 15 12	31 35 32 38 38 30 23 32 30	23 19 16 15 25 14 11 15 7	18 19 15 15 22 12 15 12 8	41 38 31 30 47 26 26 27 15	18 16 15 23 12 14 9 17 21	13 13 11 10 9 8 9 17 12	21 29 26 33 21 22 18 34 33	16 19 19 17 15 14 20 17	19 15 11 12 15 9 11 9	35 34 30 29 30 23 31 26 28	30 24 15 14 20 18 11 11 15	19 20 10 13 6 17 7 9	49 45 25 27 26 35 18 20 28	44 39 21 18 22 35 17 16 14	30 32 13 7 18 19 12 10 8	74 71 34 25 40 54 29 20 20
			Ju	ly.					Aug	gust.					Septe	mbe	r.	
Calendar year.	,	Whit	e.	C	olore	ed.	,	Whit	e.	C	olore	ed.		Whit	e.	C	olore	ed.
	М.	F.	T.	М.	F.	T.	M.	F.	T.	М.	F.	T.	М.	F.	T.	М.	F.	т.
1901-1905 i 19 86-1910 i 1911-1915 i 1911-1915 i 1912-1913 1913-1914 1915-1916 Bereal	52 47 31 50 33 33 21 20 30	40 33 22 39 18 24 14 14 25	92 80 53 89 51 57 35 34 55	56 46 26 34 32 26 22 18 35	55 45 26 44 35 24 16 12 21	111 91 52 78 67 50 38 30 56	33 36 25 40 22 18 23 24 30	22 29 18 27 18 13 13 13 17	55 65 43 67 40 31 36 42 47	39 32 24 27 32 22 22 19	35 29 20 30 22 12 18 18 26	74 61 44 57 54 34 40 37 43	22 27 23 17 27 19 20 31 18	19 19 17 22 11 16 19 16 18	41 46 40 39 38 35 39 47 36	25 24 21 24 18 21 20 21 23	23 21 18 15 19 21 11 24 19	48 45 39 39 37 42 31 45 42
			Oct	ber.					Nove	mbe	r.				Dece	mbe		
Calendar year.	,	Whit	e.	C	olor	ed.	,	Whit	e.	C	olore	ed.	,	Whit	е.	C	olore	ed.
	М.	F.	T.	М.	F.	T.	М.	F.	т.	М.	F.	T.	м.	F.	T.	М.	F.	т.
1901-1905 1 1906-1910 1 1911-1913 1 1911-1913 1 1912 1913 1914 1915 1916	22 21 18 18 19 15 9 28 22	17 17 15 19 11 13 16 18	39 38 33 37 30 28 25 46 39	27 25 18 26 21 15 16 14 18	20 18 14 18 20 13 12 17 12	47 43 32 44 41 28 28 31 30	19 20 18 22 21 13 18 15	14 14 13 10 14 17 11 13 10	33 34 31 32 35 30 29 28 17	18 20 17 17 17 14 20 19 6	15 20 16 20 13 20 9 16 13	33 40 33 37 30 34 29 35 19	15 21 20 23 16 22 17 24 18	12 13 12 14 13 12 11 10 10	27 34 32 37 29 34 28 34 28	24 22 15 13 20 16 11 15 18	22 16 14 16 12 13 16 10 8	46 38 29 29 32 29 27 25 26

¹ Annual average for 5-year period.

Table 10.—Deaths (stillbirths excluded) in the District of Columbia of children under 1 year of age, by sex and color, and by months and years—Continued.

SUMMARY.

0.11	Wh	ite.	Colo	red.	(Grand total	
Calendar year.	Male.	Female.	Male.	Female.	White.	Colored.	Total.
901–1905 1	297	218	353	297	515	650	1,16
900-1910 1	297	225	319	273	522	592	1, 11
911–1915 '	239 276	172 214	231 246	191 221	411 490	422 467	83 95
912	265	162	245	227	427	272	96 89
913	228	172	232	196	400	428	8:
914	191	152	212	160	343	372	7
915	236	162	219	161	398	380	7
916	237	176	194	159	413	353	7

¹ Annual average for 5-year period.

Table 11.—Deaths (still births excluded) in the District of Columbia, by race, under 5 years of age.

Calendar year.	White.	Colored.	Total.
1901–1905 ¹	687	896	1,58
906-1910 1	685	792	1, 47
911-1915 1	534	578	1,11
911	643	659	1,30
912	536	644	1, 18
913	550	580	1,13
1914	438	492	93
1915	506	513	1,01
1916	534	496	1,03

¹ Annual average for 5-year period.

Table 12.—Births (stillbirths excluded), decedents under 1 year, and death rates based on reported births, for the years during and since the calendar year 1901.

		White.			Colored.			All.	
Years	Births	Deaths under 1 year.	Deaths per 1,000 re- ported births.	Births.	Deaths under 1 year.	Deaths per 1,000 re- ported births.	Births.	Deaths under 1 year.	Deaths per 1,000 re ported births.
1901–1905 ¹ . 1906–1910 ¹ . 1911–1915 ¹ . 1911. 1912. 1913. 1914. 1915. 1916.	3,429 4,(32 4,794 4,772 4,734 4,667 4,925 4,872 5,042	519 522 411 490 427 400 343 398 413	151 113 86 103 90 86 70 82 82	1,980 2,268 2,234 2,260 2,273 2,236 2,205 2,195 2,216	650 592 424 467 472 428 372 380 353	328 261 189 207 208 191 169 173 159	5, 409 6, 900 7, 028 7, 032 7, 007 6, 903 7, 130 7, 067 7, 258	1,169 1,114 835 957 899 828 715 778 766	21 16 11 13 12 12 10 11 10

¹ Annual average for 5-year period.

TABLE 12a.—Deaths of infants in the District of Columbia under 1 year of age, stillbirths and live births, during the ralender year 1916, aronged by case and according to statistical districts.

total live and stillbirths of the same class.	n- All. White, Colored. All.
	Un- known.
White. Colored.	
	All. Whi
	Colored.
0	White.
	All.
	Colored.
	White.
	All.
	Colored.
	White.
District.	

1 14 found in pumping station.

TABLE 12a.—Deaths of infants in the District of Columbia under 1 year of age, stillbirths and live births, during the calendar year 1916, arranged by race and according to statistical districts—Continued.

	Regis	Registered live births.	births.	Deat	Deaths under 1 year.	year.	Infant de rogi	Infant death rate based on registered births.	based on hs.		Stillb	Stillbirths		Percenta total li of the	Percentage of stillbirths to total live and stillbirths of the same class.	oirths to
District.	White.	Colored.	All.	White.	White. Colored.	All.	White.	Colored.	АП.	White.	Colored.	Un- known.	All.	White.	Colored.	AII.
86886-1441467	25.83.883.252.88.85.25.85.85.85.85.85.85.85.85.85.85.85.85.85	6r = 550 00 11 11 12 00 24 1 1	55 55 55 55 55 55 55 55 55 55 55 55 55	11-21-22231 8 2284 1	0 0 1 1 0 0 0440 1	#1121888881188884 R	25.6 25.0 25.0 25.0 25.6 111.1 25.6 25.6 25.6 25.6 25.6 25.6 25.6 25.6	83.3 83.3 833.3 117.6 117.7 444.4 71.4	45.9 20.14 30.13 30.12 30.12 30.12 14.10 10.13 117.6 117.6		1 1 2 1 1 1 2 2 1 1 2 2 1 1 1 1 1 1 1 1	1 0 1 10000001 1 1001 0100	1000000000 100 0 2	8 8 1 1451188888	9 77 88 80 90 00 00 00 00 00 00 00 00 00 00 00 00	9 84 94 <t< td=""></t<>
Total	5.012	2,216	7,238	413	353	992	81.9	159.3	105.5	171	192	54	417	3.3	8.0	5.4

Table 12b.—Deaths (stillbirths excluded) of infants under 1 day, and from 1 day to 1 week old, in the District of Columbia, with corresponding death rates based on registered births, together with percentages of deaths at these age periods to total deaths under 1 year, during the calendar years 1901 to 1916, inclusive.

	Regis-	First	day.	1 day to	1 week.
Years.	tered births.	Deaths.	Death rates.	Deaths.	Death rates.
1901-1905 ¹	5, 408. 8 6, 899. 8	124.6 131.0	2 23. 03 18. 98	158.2	29. 25
1906-1910 ¹	7,027.8	131.6	18.73	157.6 132.0	22. 84 18. 78
1911	7,032.0 7,007.0	151.0 123.0	21. 47 17. 55	130.0 141.0	18. 49 20. 12
1913	6,903.0 7,130.0	142.0 112.0	20. 57 15. 93	118.0 143.0	17. 09 20. 06
915. 916	7,067.0 7,258.0	130.0 132.0	18.39 18.19	128.0 136.0	18. 11 18. 7

¹ Annual average for 5-year period.
² This death rate in 1901 was 40.18, from some cause not now apparent. Other death rates in this quinquenium were 19.87, 25.18, 17.85, and 17.15.

Table 13.—Deaths (stillbirths excluded) and death rates in the District of Columbia, by race and by months, from 1901 to 1916, inclusive.

		J	anuai	ry.			F	ebrua	ıry.				March	ı.	
	W	hite.	Col	ored.	rate	W	hite.	Col	ored.	rate	W	hite.	Colo	ored.	rate
Calendar year.	Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rateper 100,000.	Monthly death per 100,000 population.	Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rateper 100,000.	Monthly death per 100,000 population.	Deaths.	Monthly death rateper 100,000.	Deaths.	Monthly death rate per 100,000.	Monthly death per 100,000 population.
1901-1905 1 1906-1910 1 1911-1915 1 1911-1915 1 1912-1913 1 1914-1915 1 1916	323 338 344 355 365 311 353 335 399	148 140 135 141 144 122 138 129 153	251 237 224 230 229 226 208 228 246	268 245 228 234 232 230 213 231 248	184 170 161 167 168 152 159 157 179	307 325 340 323 356 345 310 367 353	141 135 133 128 140 135 121 142 135	228 224 217 212 211 222 219 219 208	243 231 220 215 214 226 224 222 209	171 163 157 153 160 160 150 164 156	332 343 374 370 358 340 368 432 418	152 142 146 147 141 133 144 167 160	226 257 240 215 248 216 245 276 234	241 264 244 219 251 220 251 279 236	179 178 174 167 171 157 173 198 181
			Apri	l.				May					June.		
	W	hite.	Col	ored.	rate	W	hite.	Col	ored.	rate	W	hite.	Colo	ored.	rate
Calendar year.	Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.	Monthly death per 100,000 population.	Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rateper 100,000.	Monthly death per 100,000 population.	Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.	Monthly death per 100,000 population
1901-1905 1 1996-1910 1 1911-1915 1 1911 1912 1913 1914 1915 1916	287 314 327 330 324 321 296 364 353	132 131 128 131 127 126 116 140 135	217 228 227 221 231 209 233 239 226	231 235 231 225 234 213 239 242 228	162 161 156 158 157 150 150 168 161	251 282 289 301 257 306 297 283 310	115 117 113 119 101 120 116 109 119	201 206 202 205 232 190 179 195 197	214 213 205 208 235 203 183 197 199	145 145 139 145 138 143 135 134	253 280 261 261 254 287 247 254 271	116 116 102 103 100 112 96 98 104	231 223 193 176 192 210 182 206 173	246 230 196 179 195 214 186 208 174	155 149 128 125 126 140 121 129

¹ Annual average for 5-year period.

Table 13.—Deaths (stillbirths excluded) and death rates in the District of Columbia, by race and by months, from 1901 to 1916, inclusive—Continued.

			July.				I	ugus	t.			Se	ptemb	er.	
	Wi	ite.	Cole	ored.	rate	WI	nite.	Cole	ored.	rate	WI	nite.	Colo	red.	rate
Calendar year.	Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.	Monthly death per 100,000 population.	Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.	Monthly death per 100,000 population.	Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.	Monthly death
1901-1905 1 1906-1910 1 1911-1915 1 1911 1912 1913 1914 1915 1916	314 322 299 366 270 303 260 300 298	144 134 117 146 106 119 102 116 114	282 268 221 252 254 218 191 189 248	300 277 224 257 257 222 196 191 250	191 175 147 177 148 147 128 137 152	253 267 258 265 284 245 239 257 265	116 111 101 105 112 96 93 99 102	227 216 205 210 233 177 190 215 223	242 223 208 214 236 180 195 218 225	154 143 131 137 146 119 121 132 136	237 264 261 255 235 262 258 294 282	109 110 102 101 92 103 101 114 108	186 194 187 190 185 178 186 198 217	198 201 190 193 187 181 191 200 219	15 15 11 11 11 11

		C	ctobe	er.			No	vemb	oer.			D	ecemb	er.	
	W	nite.	Cole	ored.	rate	WI	nite.	Cole	ored.	rate	Wl	nite.	Colo	red.	rate
Calendar year.	Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.	Monthly death per 100,000 population.	Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.	Monthly death per 100,000 population	Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rateper 100.000.	Monthly death per 100,000 population.
1901-1905 1 1906-1910 1 1911-1915 1 1911 1912 1913 1914 1915 1916	270 278 282 301 294 260 246 308 303	124 116 110 119 116 102 96 119 116	198 205 207 237 229 189 179 200 182	211 212 210 241 232 192 183 202 183	150 143 138 154 148 127 120 142 135	271 280 300 294 278 287 306 337 341	125 117 118 117 109 112 120 130 131	185 196 201 211 202 211 183 196 187	197 203 204 215 205 215 187 198 189	146 141 142 144 136 141 138 149 147	297 334 330 318 331 301 313 387 360	136 139 129 126 130 118 122 149 134	217 224 200 205 207 183 178 226 200	231 232 202 209 210 187 182 239 203	165 166 150 150 152 137 139 171 156

Table 14.—Number of deaths and relative mortality of certain specified diseases, contagious and otherwise, for the years mentioned below.

		I	neu	rism				Ang	ina j	ecto	ris.				Apo	3 plexy	7.	
Year.	D	eath	s.		th r.		D	eath	s.		th r		D	eath	ıs.	De	ath ra	ates
	w.	c.	To-	w.	c.	To-	w.	c.	To-	w.	c.	To-	w.	C.	To-	w.	c.	To tal
1901–1905 1 1906–1910 1 1911–1915 1 1911 1912 1913 1914 1914 1915	4 6 7 8 8 8 2 7 9 4	3 7 8 4 9 12 6 9 23	7 13 15 12 17 14 13 18 27	2.7 3.2 3.1 .8 2.7 3.5	7.2	3.8 4.2 3.4 4.8 4.0 3.7 5.0	15 20 21 19 15 19 25	5 2 8	22 19 25 23 27 20 23 30 30	6.2 7.8 8.3 7.5 5.9 7.4 9.6	4.1 5.1 2.0 8.1 5.1 4.1 5.1	7.1 5.6 7.1 6.5 7.6 5.6 6.5 8.4 8.3	216 273 261 265 251 283 306	111 140 143 134 134 136 151	327 413 404 399 385 419 457	81.3 90.0 106.9 103.8 104.2 98.3 110.5 118.1 116.5	114. 8 142. 2 145. 6 135. 8 136. 5 139. 3 152. 8	97. 116. 115. 113. 108. 118. 127.

¹ Annual average for 5-year period.

 $\begin{array}{c} {\rm TABLE~14.} - Number~of~deaths~and~relative~mortality~of~certain~specified~diseases, contagious\\ and~otherwise,~for~the~years~mentioned~below--Continued. \end{array}$

Pearl Pear				Α	rterio	t sclere	sis.			Br	ight	5 s dis	ease.			Cirr		6 s of l	iver	
1901-1905 29	Year.			Deat	hs.				D	eath	s.				D	eath	s.			
98 22 120 38.4 22.3 33.9 347 197 544 135.8 200.1 135.7 34 84 213.3 84 131.8 191.1 185 191.4 38.5 191.4 38.5 183.6 297.3 185.5 251.4 191.5 191.2 240 44 44 141.5 4.1 191.5 191.			w	. c.	To-	w.	c.	To- tal.	w.	c.	To- tal.	w.	C.	To- tal.	w.	C.	To- tal.	w.	c.	Total
Diabetes Diarrhea and enteritis (under 2 years). Diarrhea and enter (2 years and over)	906-1910 4 911-1915 1 911 912 913 914 915		. 8 . 8 . 11 . 12	1 1 18 2 15 1 12 2 16 2 12 3	3 84 2 120 9 104 3 105 8 94 7 143 2 154	29.5 38.4 33.8 32.2 33.7 45.3	13.4 22.3 19.3 23.3 8.2 27.7 32.4	24.9 33.9 29.7 29.7 26.6 40.4 43.1	283 347 337 322 321 363 392	159 197 188 182 168 225 221	544 525 504 489 588	135. 8 134. 0 126. 5 125. 8 141. 7	200.1 191.5 184.5 171.2 230.5	153.7 150.2 142.8 138.4 166.2	34 40 33 27 30 43	10 8 4 6 10 11 8	43 42 44 39 37 41 51	13.7 13.3 15.9 13.0 10.6 11.7	10.3 8.0 4.1 6.1 10.2 11.3 8.	12.8 11.9 11.9 11.0 11.0 2 10.5 11.6
Deaths Death Dea			-			•	3.		Dia	rrhe	a an ier 2	d ent	eritis	(un-			ea a	nd (
901-1905 1	Year,		-	Deat	hs.				D	eath	s.				D	eath	s.			
906-1910 37 4 4115.4 4.112.2 128 177 305 53.3 183.1 90.5 50 22 72 20.825 191-1915 50 8 58 19.5 8.0 16.3 81 111 192 31.7 112.7 52.2 43 20 63 16.820.3 911 46 4 50 18.3 4.114.3 124 133 257 49.3 135.5 73.5 50 20 70 19.9 20.4 9.3 13.3 4.114.3 124 133 257 49.3 135.5 73.5 50 20 70 19.9 20.4 13.9 13.9 14.5 14.5 1.1 12.5 1.1 12.8 7 110 187 30.3 111.5 53.0 44 19 4.3 173 19.3 191.4 58 6 64 22.6 6.1 18.1 48 94 142 18.7 96.3 40.1 37 20 5817.6 23.4 191.5 191.5 112.8 87 44 101 175 28.3 101.9 48.6 37 27 64 14.2 27.2 191.5 10.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12			W	. c	To tal.	W.	C.	To- tal.	w.	C.	To-	w.	c.	To-	w.	c.	To-	w.	c.	To-
Pear. Deaths. Death rates per 100,000. Deaths. Death rates per 100,000. Death rates per 100,000. Death rates per 100,000. Death rates per 100,000. Death rates per 100,000. Death rates per 100,000.	906-1910 1 911-1915 1 911 912 913 914 915			37 30 46 46 46 31	4 41 8 58 4 50 5 45 13 59 6 64 11 72	15.4 3 19.5 3 18.3 5 15.7 9 18.0 4 22.6 2 23.6	4.1 8.0 4.1 5.1 13.3 6.1	12.2 16.3 14.3 12.8 16.7 18.1 20.1	128 81 124 77 85 48 71	177 111 133 110 123 94 96	305 192 257 187 208 142 167	53.3 31.7 49.3 30.3 33.3 18.7	183.1 112.7 135.5 111.5 125.4 96.3 97.1	90.5 54.2 73.5 53.0 58.9 40.1 46.7	50 43 50 44 45 37 38	22 20 20 19 23 20 20	72 63 70 63 68 57 58	20. 8 16. 8 19. 9 17. 3 17. 6 14. 5	22. 3 20. 3 20. 3 19. 3 23. 5 20. 7 20.	7 21. 4 3 17. 8 4 20. 0 3 17. 8 4 19. 2 5 16. 1 2 16. 2
Deaths. Deaths			Dise	ases		e hear	rt.			Dy	11 sent	ery.				Е				
W. C. To- tal. W. C. To- tal. W. C. To- tal. W. C. To- tal. W. C. To- tal. W. C. To- tal. W. C. To- tal. To- tal. W. C. To- ta	Year.	D	eatl	ıs.					Deat	hs.					Deat	ths.				
		W.	C.	To-	w.	c.	Total	w	. c.	Tota	i. W	7.	c. T	o- W	. C			v.	C.	To- tal.

		Disea	ases	oi the	hear	t.			Dys	enter	y.				Epi	iepsy		
Year.	D	eath	s.		ath ra r 100,0		D	eath	S.		th ra		D	eath	s.		ath ra	
	w.	C.	To-		C.	To- tal.	w.	C.	To- tal.	w.	C.	To- tal.	w.	C.	To- tal.	w.	C.	To- tal.
1901-1905 1 1906-1910 1 1911-1915 1 1911 1912 1913 1914 1915 1916	277 332 461 393 474 459 430 552 488		568 738 659 786 736 657 853	138.3 180.5 156.3 186.4 179.9 167.9 213.1	244.1 281.3 271.0 316.2 282.3 232.6 304.6	158.4 168.6 208.5 188.5 222.7 208.2 185.8 238.4 198.8	7 4 5 5 3	10 9 3 6 4 3 1 2 3	23 16 7 11 9 6 5 7 6	6.0 2.9 1.6 1.9 2.0 1.2 1.6 1.9	10.7 9.3 3.0 6.1 4.1 3.1 1.0 2.0 3.0	3.1 2.5 1.7 1.4 2.0	14 13 10 6 10 17 10 6 12	10 9 11 13 13 13 10 9 6	24 22 21 19 23 30 20 15 18	6. 4 5. 4 3. 9 2. 4 3. 9 6. 7 3. 9 2. 3 4. 6	9.3 11.1 13.2 13.1 13.3 10.3	5.9 5.4 6.5 8.5

¹ Annual average for 5-year period.

Table 14.—Number of deaths and relative mortality of certain specified diseases, contagious and otherwise, for the years mentioned below—Continued.

				l 3 tritis.						14 ippe.						15 anit	y.		
Year.	D	eath	s.		th ra		D	eath	s.		th ra 100,0		D	eath	ıs.		eath er 10		
	w.	c.	To- tal.	w.	C.	To- tal.	w.	C.	To-	w.	c.	To- tal.	w.	c.	To-	w.	C		To-
1901-1905 1 1906-1910 1 1911-1915 1 1911 1912 1913 1914 1915 1916	44 41 25 34 31 23 25 13 14	24 32 29 34 31 33 23 26 20	68 73 54 68 62 56 48 39 34	20. 2 17. 1 9. 8 13. 5 12. 1 9. 0 9. 8 5. 0 5. 4	33. 1 29. 5 34. 6 31. 4 33. 6 23. 6 26. 3	21.7 15.3 19.5 17.5 15.8 13.5 10.9	52 40 41 28 30 34 70	38 44 31 26 34 19 31 44 41	67 62 49 65 114	21.6 ·15.7 16.3 11.0 11.8 13.2 27.0	45.5 31.5 26.5 34.4 19.4 31.8 44.5	28.6 28.5 20.1 19.1 17.5 13.8 18.3 31.9 31.1	27 25 41 34 36 40 58 39 52	15 12 20 29 32	49 48 60 87 71	10. 16 13. 14. 15. 22. 15.	4 11 1 22 5 15 1 12 6 20 6 29 1 32	.5 .4 .3 .3 .1 .4 .7 .3 .2	10.7 17.8 14.0 13.6 17.0 24.6
		М		16 al fev	ers.			Mal		17 nt gro	wths.			Pne	ımor	18 ia, ε	ıll foı	ms	
Year.	D	eath	s.		ath r		D	eath	ıS.		ath ra		Г	eath	ıs.		eath er 10		
	w.	c.	To-	w.	c.	To-	w.	c.	To-	w.	C.	To- tal.	w.	c.	To-	w	. 0		To- tal.
1901-1905 1 1906-1910 1 1911-1915 1 1911 1912 1913 1914 1915 1916	5 2 2 5	6 1 2 3	3 4 8 3 2	1.2	2. (3. 1	3.2 .8 0 1.1 1 2.3 .8	212 259 215 245 278 259 301	52 64 80 71 78 73 85 91 93	276 339 286 323 351 344 392	88.3 101.4	66. 2 81. 2 72. 3 79. 1 74. 0 86. 9 92. 1	81. 9 95. 8 81. 8 91. 5 99. 0 97. 8 109. 6	246 262 278 251 207 242 333	304 285 310 274 277 226 338	550 547 589 525 484 468 671	102. 102. 110. 98. 81. 94. 128.	6 307 5 314 6 289 5 315 7 277 1 282 4 231 6 342 9 301	.01	163. 154. 168. 148. 137. 132.
			Rh		19 tism,	acute	and				eo bies.			Sof	tenir	21 ng of		bra	in.
Year.			Г	eath		Death per 10			Dea	ths.		th rat		De	eaths		Dea		
			w.	С.	To- tal.	w. c	ta)- W	7. C	To-			Го- al.	w.	C.	To-	w.	C.	To ta
1901-1905 \\ 1906-1910 \\ 1911-1915 \\ 1911-1915 \\ 1911-1913 \\ 1913 \\ 1914 \\ 1915 \\ 1916			. 20 . 15 . 17 . 13 . 13 . 22 . 13	11 9 8 8 10 11 6	35 1 31 24 25 21 23 33 19 18	11. 5 10 8. 3 11 5. 9 9 6. 7 8 5. 1 8 5. 1 10 8. 6 11 5. 0 6 5. 0 5	.4 9. .1 6. .1 7. .1 5. .2 6. .2 9.	2 8 1 9 5	i 1 1		0.4	1.0	0.3	12 15 6 10 11 3 4 2	6 6 2 1 5	21 8 11 16 3	5.5 8.7 2.3 3.9 4.3 1.2 1.5	6. 2 2. 0 1. 0 5. 1 2. 0	2 6. 2 2. 3 3. 4 4. 2 2.

¹ Annual average 5-year period.

Table 14—Number of deaths and relative mortality of certain specified diseases, contagious and otherwise, for the years mentioned below—Continued.

				2 ides.			Stea	ım r		3 ad ac	cide	nts.	Sti	eet		e4 oad ac	ciden	ts.
Year.	D	eath	s.		100,		D	eath	s.		th r:		D	eath	s.		th ra 100,0	
	w.	c.	To-	w.	C.	To-	w.	c.	To-	w.	c.	To-	w.	c.	To- tal.	w.	C.	To-
1901-1905 1	46 62 71 78 80 64 59 76	5 9 10 11 9 8 8 11	71 81 89 89 72 67 87	25.8 27.8 31.0 31.6 25.1 22.7 29.3	9.3 10.2 11.2 9.2 8.1 8.1 11.1	16. 4 21. 1 22. 9 25. 5 25. 1 20. 5 18. 9 24. 3	18 7 3 13 7 5		24 25 8 5 15 9 7 5 8	8.3 7.5 2.7 1.1 5.1 2.7 2.0 1.9	7.2 1.0 2.0 2.0 2.0 2.1	7.4 2.3 1.4 4.2 2.5 2.0 1.4	9 13 10	2 4 3 6 3 1 4 2	8 15 15 17 19 10 17 12 9	6.2 3.5 5.1	2.1 4.1 3.0 6.1 3.0 1.0 4.1 2.1	4.4 4.2 4.9 5.3 2.8 4.8

Table 15.—Deaths in the District of Columbia from cancers and other malignant tumors, by race and sex, for the years mentioned below.

	te.	Color	ea.		Total.	
M.	F.	м.	F.	М.	F.	All.
61	105	14	39	75	144	21
						27 33
83	132	25	46	108	178	28
						32 35
		. 32	53	135	209	34
121	180	23	68	144	248	39 38
	61 88 104 83 99 114 103	61 105 88 124 104 156 83 132 99 146 114 164 103 156 121 180	61 105 14 88 124 17 104 156 26 83 132 25 99 146 23 103 156 32 114 164 23 103 156 32 121 180 23	61 105 14 39 88 124 17 47 104 156 26 53 83 132 25 46 99 146 23 50 114 164 23 50 103 156 32 53 121 180 23 68	61 105 14 39 75 88 124 17 47 105 104 156 26 53 130 83 132 25 46 108 99 144 164 23 50 127 114 164 23 50 137 103 156 32 53 135 121 180 23 68 144	61 105 14 39 75 144 88 124 17 47 105 171 104 156 26 53 130 299 83 132 25 46 108 178 99 114 164 23 50 127 196 114 164 23 50 137 214 103 156 32 53 135 209 121 180 23 68 144 248

Annual average for 5-year period.

Table 16.—Deaths in the District of Columbia from cancers and other malignant growths, arranged with reference to sex, race, marital relation, age, and organs involved, during the calendar year 1916.

		Wh	ite.	Colo	red.		farita latio						Age					
Location.	Total.	Male.	Female.	Male.	Female.	Married or widowed.	Single.	Under 5 years.	o 9 yea	to years.	20 to 29 years.	30 to 39 years.	to years.	50 to 59 years.	to years.	70 to 79 years.	80 to 89 years.	90 years
Head, face, neck, etc.: Brain Face Jaw Larynx Lip Mouth Neck Palate Throat Tongue Thyroid Digestive system: Intestines Liver Anneas Stomach Female genitals: Breast Ovary Uterus Unclassifed: Bladder Breast Chest Femur Groin Kidney Lung Pelvis Penis	1 5 6 4 2 1 8 1 2 8 8 3 4 3 4 4 4 8 8 7 7 0 1 1 1 2 2 1 1 1 7 7 9 1 3 3 1 4 4 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 1 2 1 1 1 1 1 2 1	5 4 4 4 6 2 5 10 19 7 4 30 4 4 1 2 2 4 1 2 2 4 1 2 4 1 2 2 4 4 1 2 4 4 1 2 4 4 4 1 2 4 4 4 4	1 2 2 1 1 8 3 3 3 0 2 4 9 1 1 3 4 4	1 2 2	111111111	4 6 6 3 2 2 7 1 2 2 8 2 2 3 3 3 3 8 5 7 0 3 1 2 6 5 8 1 1 1 1 1 4 4 6 6 1 3 1 4 4 6 1 3 1 4 4 6 1 2 2	1 1 1 1 1 1 10 11 2 16 10 5 3 1 12 13 3 3 1	1	1	1	2	1 1 5 4 4 6 1 1 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 2 1	7 4 2 2 177 111 119 2 2 3 3	13 11 13 11 11 18 8 22 2	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 2	1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	

Table 17.—Anterior poliomyelitis, acute—Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1912 to 1916, inclusive.

Year.	D	eath	s.		th r		(Cases		Ca per pop	se ra 100, ulat	.000	de	centage of eaths to cases.
	w.	C.	To- tal.	w.	C.	To- tal.	w.	C.	To- tal.	w.	C.	To- tal.	w.	C. To-
1912 1913 1914 1915 1915 1915 1916	5	4 1 2 2 1	····i	1.9	1. 0 2. 1 2. 0	.5		4 1 2 2 2 7	7	1.6 2.3 1.6	1.0 2.0 2.0	1. 4 2. 3 1. 7		100. 0 40. 0 50. 0 12. 5 100. 0 32. 3 100. 0 28. 6 14. 3 15. 4

¹ Annual average for ⁴ years.

Table 17a.—Anterior poliomyelitis, acute—Reported cases and deaths, by race and by months, during the calendar year 1916.

Month,	W	nite.	Cole	ored.	То	tal.
Month.	Cases.	Deaths.	Cases.	Deaths.	Cases,	Deaths.
Pebruary March April	. 1				2	
fay. une. uly. ugust eptember ctober overmber	8 15 5 3	1 3	3 1 2	1	8 18 6 5	
ecember	32	5	7	1	39	

Table 17b.—Anterior poliomyelitis, acute: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1916.

		White.			Colored	l.		Total.	
Age.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percentage of deaths to cases.	Cases,	Deaths.	Percentage of deaths to cases.
Under 1 year 1 to 4 years 5 to 9 years 10 to 19 years	18	1 1	5. 5 16. 6			50. 0	3 23 6 3	1 1 1	33. 3 4. 3 16. 6
20 to 29 years 30 to 39 years 40 to 49 years 50 to 59 years 60 to 69 years	3							1 2	100. 0 66. 6
70 years and over Total	• • • • • • • •	5	15. 6	7	1	14.3	39	6	15. 4

Table 18.—Chicken pox: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1907 to 1916, inclusive.

	D	eatl	ıs.		Death rate per 100,000.			s repoi	ted.	Case ra	te per : opulat	100,000 ion.	Perc fata	entage al cases	of s.
Year.	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.
1907-1910 1911-1915 1 1911 1912 1913 1914 1914 1916			0. 25				478 726 411 689 906 830 795 918	174.0 160.0 183.0 186.0 201.0 138.0	900 571 872 1,092 1,031 933	284. 5 160. 6 271. 0 355. 1 324. 1 307. 0	177. 0 162. 2 195. 6 189. 5 205. 9 139. 7	291. 5 260. 8			

¹ Annual average for 5-year period.

Table 18a.—Chicken pox: Reported cases and deaths, by race and by months, during the calendar year 1916.

	Wh	nite.	Cold	ored.	То	tal.
Month.	Cases.	Deaths.	Cases.	Deaths.	Cases,	Deaths.
January	145		42		187	
February	123		39		162	
March	142		22		164	
April	137		28		165	
Mav	78		38		116	
June	54		13		67	
July	18		7		25	
August	4	1	2		6	
September	6		2		8	
October	33		2		35	
November	79		5		84	
December	99		21		120	
Total	918		221		1,139	

Table 18b.—Chicken pox: Cases and deaths, with percentage of deaths to cases, at certain age periods during the calendar year 1916.

		White.			Colored	l.		Total.	
Age.	Cases,	Deaths.	Percent- age of deaths to cases.	Cases,	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases,
Under 1 year. L to 4 years. L to 4 years. L to 9 years. Ut to 19 years. 20 to 29 years. 30 to 39 years. 40 to 19 years. 50 to 59 years. 60 to 69 years. 70 years and over.	215 486 147 29 12 3 1			12 62 99 32 9 5 2			37 277 585 179 38 17 5		
Total	918			221			1,139		

Table 19.—Diphtheria: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1896 to 1916, inclusive.

Year.	1	Deat	hs.			rates ,000.		Case	s.	Cas 100,00	e rate 0 popu	per lation.	Per deat	rent hs to	age of cases.
	w.	c.	Total.	w.	c.	Total.	w.	c.	Total.	w.	c.	Total.	w.	C.	Total.
1901-1905 1909-1910 1909-1910 1911-1915 1911-1912 1913 1914 1915 1915 1916	24	17 8 4 3 		6.0 6.0 9.0 9.0 8.5	8.0 4.1 3.0 4.0 7.0 7.1	10. 0 6. 8 5. 0 4. 0 7. 0 9. 0 8. 1	391 402 428 308 451	105 90 85 79 85	507 518 393 530 452 644	121.1 176.7 143.3 177.3	106.8 91.7 86.1 80.5 87.1 187.2	111. 4 150. 0 127. 8 180. 0	4.8 3.7 4.9 4.9 6.5	3.8 3.3 5.1 8.2 3.8	3.7 3.8 4.9 6.9 4.5

¹ Annual average for 5-year period.

TABLE 19a.—Diphtheria: Reported cases and deaths, by race and months, during the calendar year 1916.

Month.	W	hite.	Cole	ored.	То	tal.
MOILII.	Cases,	Deaths.	Cases,	Deaths.	Cases.	Deaths.
muary	86	1	28	1	114	
ebruary	27	5	7		34	
arch	29	2	2	1	31	
pril	64	4	37	1	101	
ày	24	2	30	2	54	
ine	16		6		22	
dy	12		7		19	
ignst	14		3		17	
ptembertober	21 54	1	19	1	40	
ovember	80	2	14		61 94	
ecember.	58	3	2	·····i	60	
Total	485	25 4	162	. 7	647	:

Note.—In addition to the above, one death was reported from croupous laryngitis. No culture was taken.

Table 19b.—Diphtheria: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1916.

		White.			Colored	l.		Total.	
Age,	Cases,	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percentage of deaths to cases.
Under 1 year 1 to 4 years 5 to 9 years 10 to 19 years	110 159	16 6	13.6 3.8	13 31 22 48	2 2 1	15. 4 9. 7 4. 5	29 141 181 171	18 7	6. 9 12. 8 3. 9
25 years 30 to 39 years 40 to 49 years 50 to 59 years 60 to 69 years	15 13 1	1	4.7 6.7	24 5 7 6 4	i	4. 2 14. 3	67 20 20 7 5	3 1 1	4. 5 5. 0 5. 0
70 years and over Total .	484	25	5. 1	163	7	4.3	647	32	4.9

Note.—See Table 7. Deaths from diphtheria, arranged by statistical districts. See Table 7c. Deaths from diphtheria on streets and in alleys.

TABLE 20.—Measles: Deaths and death rates, cases and case rates, per 100,000 population, and percentages of deaths to cases, according to race, from 1901 to 1916, inclusive.

Year.	1	Deat	hs.			rates	(Cases	3.	Case ra	te per pulatio	100,000 on.			age of cases.
Y	w.	C.	Total.	w.	C.	Total.	w.	C.	Total.	w.	c.	Total.	w.	C.	Total.
1901-1905 1 1906-1910 t 1911-1915 t 1911 1912 1912 1913 1914 1915 1916		5 5 3 6 3 6 1 1 1 2	15 11 22	4.0	6.0	4.0 3.1 6.0 2.0 7.0 .3 1.4	2,813 1,146 4,749 673 1,557	635 492 964 274	3,448 1,638 5,713 947 1,940	1,099.5 45°.7 1,862.2 262.8 6)1.3	646, 8 498, 6 982, 2 280, 7 387, 6	974.0 464.1 1,617.1 267.8	.6	.6	0. 4 . 6 . 4 . 1

1 Annual average for 5-year period.

Table 20a.—Measles: Reported cases and deaths, by race and by months, during the calendar year 1916.

	Wi	ite.	Cole	ored.	To	tal.
Month.	Cases.	Deaths.	Cases.	Deaths.	Cases,	Deaths.
January. February. March. April. May June July August. September October November December	59 120 316 465 427 567 336 48 13 8	1 1 2	16 6 16 60 66 38 45 13 1	1 1	75 126 332 525 493 605 381 61 14 8	
Total	2,376	4	266	2	2,642	

Table 20b.—Measles: Cases and deaths, with percentage of deaths to cases, at certain age periods during the calendar year 1916.

		White.			Colored			Total.	
Age.	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percentage of deaths to cases.
Under 1 year. 1 to 4 years. 5 to 9 years. 10 to 19 years. 20 to 29 years. 20 to 29 years. 40 to 49 years. 50 to 59 years. 60 to 69 years. 60 years.	741 1, 223 243 82 20 5	2 1 1	0.3	12 90 104 34 25 1		8.3	73 831 1,327 277 107 21 5	1 2 2 1	1.4
Total	2,376	4	.2	266	2	.8	2,642	6	

NOTE .- See Table 7c. Deaths from measles on streets and in alleys.

Table 21.—Meningitis, epidemic cerebrospinal: Deaths and death rates, cases and case rates, per 100.000 population, and percentage of deaths to cases, according to race, from 1901 to 1916, inclusive.

Year.	1	Deatl	ıs.		ath i			Case	s.	Di	ase i er 100 pula		Per	centag lis to e	e of ases.
	w.	c.	To- tal.	w.	c.	To- tal.	w.	c.	To- tal.	w.	c.	To- tal.	w.	C.	To- tal.
1901-19051 1900-19101 1911-19151 1911-19151 1912 1912 1913 1914 1915	6 9 3 4 4 2 2 5 2	4 7 1 1 3 1 2	10 16 4 4 4 3 5 6 4	2.8 3.7 1.2 1.5 1.6 .8 .8	4. 3 7. 2 1. 0 1. 0 3. 1 1. 0 2. 0	3. 2 4. 7 1. 1 1. 2 1. 1 . 8 1. 4 1. 7 1. 1	4 7 4 3 4 4 4	2 1 3 1 4 1 2	6 8 7 4 8 5 6	1.2	2.0 1.0 3.0 1.0 4.1 1.0 2.0	1.7 2.3 2.0 1.1 2.3 1.4 1.7	75. 0 57. 1 75. 0 66. 6 50 0 100. 0 50. 0	50.0 33.3 100.0 75.0 100.0 100.0	66. 50. 57. 75. 62. 100. 66.

¹ Annual average for 5-year period.

Table 21a.—Meningilis, epidemic cerebrospinal: Reported cases and deaths, by race and by months, during the calendar year 1916.

Month.	W	nite.	Cole	ored.	Total.		
Month.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
January February March April	1 1 1	1 1	1	1	2 1 1	2	
lune. July August			1			j	
September October November December	·····i				1		
Total	4	2	2	2	6	4	

Table 21b.—Meningitis, epidemic cerebrospinal: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1916.

		White.			Colored	•	Total.			
$\Lambda \mathrm{ge}_{\star}$	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percentage of deaths to cases.	
Under 1 year 1 to 4 years	1	1	100				1	1	100.0	
5 to 9 years					1	100	1	1	100.0	
10 to 19 years 20 to 29 years 30 to 39 years	1	i	100	1	1	100	1	1	50. 0 100. 0	
30 to 39 years										
60 to 69 years										
	••••••		••••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	••••••		•••••		
Total	4	2	50	2	2	100	6	4	66. 6	

Table 22.—Pellagra: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1913 to 1916, inclusive.

Year.	I		hs.	Death rates per 100,000.			Cases.			Case rate per 100,000 population.			Percentage of deaths to cases.		
	w.	C.	To- tal.	w.	c.	To- tal.	w.	C.	To- tal.	w.	C.	To-	w.	C.	To- tal,
1913	2 5 2 8	12 11 9 1	16	1.9	4. 1 12. 1 11. 1 9. 2 1. 0	1. 1 3. 9 4. 5 3. 1 2. 5	6 6 4 11	4 15 16 12 5	21 22 16 16	2.3 1.6	4. 1 15. 1 16. 2 12. 2 5. 0		83. 3 50. 0	100. 0 80. 0 68. 7 75. 0 20. 0	100, 0 66, 6 72, 7 68, 8 56, 3

¹ Annual average for 3 years.

Table 22a.—Pellagra: Reported cases and deaths, by race and by months, during the calendar year 1916.

	Wh	ite.	Colo	red.	To	tal.
Month.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January February March April	3	2 1 1	3	1	3 3 1	
fay. une. uly. uugust keptember	1	1 2 1	1		1 4 1	
October November December			1		1 2	
Total	11	8	5	1	16	

Table 22b.—Pellagra: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1916.

		White.	1		Colored	-	Total.			
Age.	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percentage of deaths to cases.	
Under 1 year 1 to 4 years										
5 to 9 years							1			
20 to 29 years	1	1	100.0				1	1	100.	
30 to 39 years	1	1	100.0	3	1	33.3	4	2	50.	
40 to 49 years	4	2					4	2	50. 100.	
50 to 59 years	1 1	2	1 200.0	1			2	2	50	
60 to 69 years 70 years and over	3	2	66.6	1			4	2		
Total	11	8	72.8	5	1	20.0	16	9	56.	

 $^{^{\}rm I}$ The apparent discrepancy between the cases reported and percentage of deaths is due to the fact that a case died that was reported the previous year.

Table 23.—Scarlet fever: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1896 to 1916, inclusive.

Year.	Deaths.			Death rates per 100,000.			Cases.			Case rate per 100,000 population.			Percentage of deaths to cases.		
	w.	c.	Total.	W.	C.	Total.	w.	C.	Total.	w.	c.	Total.	W.	C.	Total
1901–1905 1 1906–1910 1 1911–1915 1 1911–1915 1 1912 1912 1913 1914 1915 1916	7 9 6 4 4 13 1 7 5	1.0 2.0 .4 1.0 1.0	11 6 4 4 14 14	2.3 2.0 2.0 5.0 .4 2.7	1.0 2.0 .4 1.0 1.0	1.7 1.0 1.0 4.0 .3 2.2	480 402 250 234 503 294 728 474	46 36 21 25 53 17 66 56	438 271 259 556 311 794	199.5 157.5 97.7 92.0 197.1 114.8 281.1 181.7	36.6 21.4 25.3 54.0 17.4 66.8	154. 9 123. 9 76. 5 73. 4 157. 4 87. 9 221. 0 147. 2	1.9 1.5 1.6 1.7 2.6 .3 1.0	4.3 1.1 1.9 1.5 1.8	2.

¹Annual average for 5-year period.

Table 23a.—Scarlet fever: Reported cases and deaths, by race and months, during the calendar year 1916.

w 0	W.	hite.	Col	ored.	To	tal.
Month.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January January February March Jayril	55 63 61 46 34 16 11 20 36 25 46 61	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 14 2 3	1	59 75 70 51 36 18 11 22 37 39 48 64	2 2 1 1 1
Total	474	5	56	1	53	(

Table 23b.—Scarlet fever: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1916.

		White,			Colored	1.	Total.			
Age.	Cases.	Deaths.	Percentage of deaths to cases.	Cases,	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	
Under 1 year	92 198 132 34 13 1		2.2 1.0 .8	2 8 21 20 3 2	1	33.3	6 100 219 152 37 15	2 2 1 1	1.0 .6 .6 2.7	
Total	474	5	1.1	56	1	1.8	530	6	1.1	

 $_{
m DOTE.-See}$ Table 7, "Deaths from scarlet fever arranged by statistical districts." See Table 7c, "Deaths from scarlet fever on streets and in alleys."

Table 24.—Smallpox: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1901 to 1916, inclusive.

Year.	Deaths.			Death rates per 100,000.			Cases.				rate ,000 of tion.	per pop-	Percentage of deaths to cases.		
	w.	C.	Total.	w.	c.	Total.	w.	c.	Total.	w.	c.	Total.	w.	c.	Total
1901-1905 1 1906-1910 1 1911-1015 1		2 0													
1911-1915			.8	. 2	. 4	.2	28 19	53 51		11. 1 7. 4	51.9	19.8			
1912					- -		23	13 7	36 9	9.0	7.1	2.6			
914.							11 53	129 97	140 150	4.3 20.7	131.4 99.4	42.4			
915. 916.	• • • •			••••			8	7	15	3.1 1.2	7.1				

¹ Annual average for 5-year period.

Table 24a.—Smallpox: Reported cases and deaths, by race and by months, during the calendar year 1916.

	WI	nite.	Cole	ored.	To	tal,
Month.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January						
February						
March						
April						
une						
iily						
Augusteptember	1					
October					2	
November						
December						
Total	3		1	1	4	

Table 24b.—Smallpox: Cases and deaths, with percentage of deaths to cases at certain age periods during the calendar year 1916.

		White.			Colored			Total.	
Age.	Cases.	Deaths.	Percentage of deaths to cases.	Cases,	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.
Under 1 year									
to 4 years									
to 9 years									
0 to 19 years									
0 to 29 years	. 3						3		
0 to 39 years				1					
0 to 49 years									
0 to 59 years									
0 to 69 years									
0 years and over									
Total				-!	-		4	-	

Table 25.—Tuberculosis, reportable forms: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1908 to 1916, inclusive.

	De	eaths	3.		h rate 00,000.			ses i		100,0	e rate p 00 of p lation.		0	cent f fat: ases	al
Year	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.
1908-1910. 1911-1915) 1911 1912 1912 1913 1914 1915 1916	277 318 351 326 338 263 312 297	429 451 464 421 389 422	747 802 790 759 652 734	$128.2 \\ 132.5$	436.5 459.5 470.2 428.9 395.0 427.1	211.3 229.4 223.8 214.8 183.4 205.2	567 580 577 597 529 552	635 584 528 543	1,224 1,212 1,181 1,057 1,095	226. 7 223. 0 231. 0 206. 6 213. 2	676.0 643.5 595.0 540.9 549.5	326.5 345.7 343.4 334.2 298.9 306.1	56. 1 60. 5 56. 5 56. 6 49. 7	73. 1 70. 0 73. 1 72. 1 73. 1	1 64. 1 65. 1 64. 7 61. 7 67.

Annual average for 5-year period.

Table 25a.—Tuberculosis, reportable forms: Reported cases and deaths, by race and by months, during the calendar year 1916.

Month.	Wh	ite.	Colo	red.	To	tal.
Month.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January	34	17	45	22	79	39
February	38	30	49	43	87	73
March	54	29	53	32	107	61
April	55	32	46	40	101	72
May	53	29	59	41	112	70
June	41	24	41	29	82	55
July	42 45	26 15	55 49	33 38	97 94	59
September	47	24	31	32	78	53 56
October.	37	22	39	34	76	56
November	45	25	35	34	80	59
December	36	24	32	19	68	43
Total	527	297	534	397	1,061	694

Table 25b.—Tuberculosis, reportable forms: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1916.

		White.			Colored	•		Total.	
Age.	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths	Percentage of deaths to cases.
Under 1 year 1 to 4 years	2 6 2 37	2 4	100. 0 66. 7	2 10	2 3 8	100,00	4 16	4	100.0
D LO 9 Venrs	9	1	50. 0	17	9	47.1	19	9	47.4
to to 19 vears	37	15	40. 5	81	51	62.9	118	66	55. 9
		70	52. 2	171	120	69.0	305	190	62. 3
		73	48.7	125	105	84.0	275	178	64. 7
		58	67. 4	72	53	73.6	158	111	70. 3
	64	45 17	70.3	30	34	1 113.3	94	79	84.0
		17	60.7	19 7	15	78.9	47	32	68.1
70 years and over	18	12	66.6	7	6	85. 7	25	18	72.0
Total	527	297	56.4	534	397	74.3	1,061	694	65. 4

¹ The apparent discrepancy between the cases reported and the percentage of deaths is due to the fact that several cases died that had been reported in previous years.

Table 26.—Reported cases and deaths in the District of Columbia from pulmonary tuberculosis, by race and by months and years.

		Janı	ıary.			Febr	uary			Mai	rch.			Ap	ril.	
Year.	Cas	ses.	Dea	ths.	Ca	ses.	Dea	ths.	Cas	ses.	Dea	ths.	Cas	ses.	Dea	ths.
	w.	c.	w.	c.												
1901-1905 1 1906-1900 1 1901-1915 1 1911-1915 1 1912-1913 1 1913-1914 1 1915.	47 40 52 53 37 52 33	50 53 46 72 38 44 43	33 28 25 21 30 19 29 25 17	43 40 33 40 35 34 23 33 20	46 60 41 43 37 48 37	42 40 51 58 31 31 46	31 32 24 30 27 24 18 23 31	41 35 33 31 34 40 34 26 39	50 55 62 43 48 44 50	58 63 67 48 52 59 40	35 32 28 37 26 37 27 25 28	38 45 40 26 49 40 41 42 30	55 44 52 64 40 73 53	50 52 51 54 39 56 42	36 30 29 29 32 34 18 32 28	42 44 33 36 32 26 27 46 37

Table 24a.—Smallpox: Reported cases and deaths, by race and by months, during the calendar year 1916.

	Wh	ite.	Cole	ored.	To	al.
Month.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths
January						
February						
March						
April						
May			1		1	
une						
uly						
Augusteptember	1				1	
October	2				2	
November						
December.						
Total	3		1	1	4	

Table 24b.—Smallpox: Cases and deaths, with percentage of deaths to cases at certain age periods during the calendar year 1916.

		White.			Colored	•		Total.	
Age,	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths,	Percent- age of deaths to cases.
Under 1 year									
Under 1 year 1 to 4 years 5 to 9 years									
5 to 9 years		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •						
10 to 19 years	3						3		
30 to 39 years 40 to 49 years				1			1		
40 to 49 years									
50 to 59 years 60 to 69 years									
70 years and over									
Total	3			1			4		

Table 25.—Tuberculosis, reportable forms: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1908 to 1916, inclusive.

	De	aths	3.		h rate 00,000.			ses i		100,0	rate poor poor ation.		0	rcent f fat: cases	al
Year	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.
1908-1910	277 318 351 326 338 263 312 297	429 451 464 421 389	747 802 790 759 652 734	128. 2 132. 5 102. 3 120. 5	436. 5 459. 5 470. 2 428. 9 395. 0 427. 1	211.3 229.4 223.8 214.8 183.4 205.2	567 580 577 597 529 552	644 635 584 528	1, 154 1, 224 1, 212 1, 181 1, 057 1, 095	222.2 226.7 223.0 231.0 206.6	656.0 643.5 595.0 540.9 549.5	326. 5 345. 7 343. 4 334. 2 298. 9 306. 1	56. 1 60. 56. 56. 49. 7	73. 1 70. (73. 1 72. 1 73. 7	1 65. 1 65. 1 64. 7 61. 7 67.

¹ Annual average for 5-year period.

Table 25a.—Tuberculosis, reportable forms: Reported cases and deaths, by race and by months, during the calendar year 1916.

Month.	Wh	ite.	Colo	red.	To	tal.
Month.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January	34	17	45	22	79	39
February	38	30	49	43	87	73
March	54	29	53	32	107	61
April	55	32	46	40	101	72
May	53	29	59	41	112	70 55 59
lune	41	24	41	29	82	5
nly	42	26	55	33	97	59
August	45	15	49	38	94	58
eptember	47 37	24	31	32	78	50
October	45	22 25	39 35	34	76	50
November	36	25	32	34	80	59 43
December	30	24	32	19	68	4.
Total	527	297	534	397	1,061	69-

Table 25b.—Tuberculosis, reportable forms: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1916.

		White.			Colored	•		Total.	
Age.	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths	Percent- age of deaths to cases.
nder 1 year to 4 years	2	2 4	100. 0 66. 7	2 10	2 3	100.00	4 16	4 7	100.0
	6 2 37	1	50. 0	17	8	47.1	19	ģ	47. 4
	37	15 70	40. 5	81	51	62.9	118	66	55. 9
U to 29 years	134	70	52.2	171	120	69.0	305	190	62.3
	150	73	48.7	125	105	84.0	275	178	64. 7
0 to 49 years	86	58	67. 4	72	53	73.6	158	111	70.3
0 to 59 years	64	45	70.3	30	34	1 113.3	94	79	84.0
0 to 69 years. 0 years and over	28 18	17 12	60. 7 66. 6	19 7	15 6	78. 9 85. 7	47 25	32 18	68. 1 72. 0
Total	527	297	56, 4	534	397	74.3	1,061	694	65, 4

¹The apparent discrepancy between the cases reported and the percentage of deaths is due to the fact that several cases died that had been reported in previous years.

Table 26.—Reported cases and deaths in the District of Columbia from pulmonary tuberculosis, by race and by months and years.

		Janu	ıary.			Febr	uary			Ma	reh.		-	Ap	ril.	
Year.	Cas	ses.	Dea	ths.	Cas	ses.	Dea	ths.	Cas	ses.	Des	ths.	Cas	ses.	Dea	ths.
	w.	c.	w.	c.	w.	c.	w.	c.	w.	c.	w.	c.	w.	c.	w.	С.
1901-1905 1 1906-1910 1 1906-1910 1 1911-1915 1 1912 1912 1913 1914 1914 1915	47 40 52 53 37 52 33	50 53 46 72 38 44 43	33 28 25 21 30 19 29 25 17	43 40 33 40 35 34 23 33 20	46 60 41 43 37 48 37	42 40 51 58 31 31 46	31 32 24 30 27 24 18 23 31	41 35 33 31 34 40 34 26 39	50 55 62 43 48 44 50	58 63 67 48 52 59 40	35 32 28 37 26 37 27 27 25 28	38 45 40 26 49 40 41 42 30	55 44 52 64 40 73 53	50 52 51 54 39 56 42	36 30 29 29 32 34 18 32 28	42 44 33 36 32 26 27 46 37

Table 26.—Reported cases and deaths in the District of Columbia from pulmonary tuberculosis, by race and by months and years—Continued.

		Ma	ay.			Ju	ne.			Ju	ly.			Aug	ust.	
Year.	Cas	es.	Dea	ths.	Cas	es.	Dea	ths.	Cas	ses.	Dea	ths.	Cas	ses.	Dea	ths.
	w.	c.	w.	c.	w.	c.	w.	c.	w.	c.	w.	c.	w.	С.	w.	C.
1901–1905 1 1906–1910 1 1911–1915 1 1911–1915 1 1912 1 1913 1 1914 1 1915 1 1916 1		53 56 65 53 37 51 56	29 25 27 28 31 32 22 21 27	37 36 36 30 48 40 28 34 38	43 46 41 49 38 43 40	48 56 57 52 41 36 37	31 24 25 26 21 26 23 28 22	36 29 32 32 44 30 25 28 26	52 53 56 69 50 33 40	51 62 48 51 54 42 53	23 21 27 29 25 23 33 28 21	35 34 36 40 48 30 28 34 32	37 36 40 38 37 34 44	39 40 40 36 32 49 47	27 25 22 26 20 20 22 23 14	37 28 29 26 27 34 30 28 38
	S	epte	mbe	r.		Octo	ber.		1	love	mbei	r.	I	Dece	mber	r.
Year.	Ca	ses.	Dea	ths.	Ca	ses.	Dea	ths.	Ca	ses.	Dea	ths.	Cas	ses.	Dea	aths.
	w.	c.	w.	c.												
1901–1905 1 1906–1910 1 1911–1915 1 1911. 1912. 1913. 1914. 1914.	40 36 36 40 52 36 45	44 55 47 35 47 38 31	25 24 20 26 18 23 16 19 21	29 35 26 30 20 24 22 35 28	40 34 45 39 44 39 39	38 43 40 33 32 42 36	27 25 20 27 23 16 15 20 21	32 35 31 37 29 25 31 32 32	40 39 41 50 36 33 42	38 46 35 36 37 39 31	30 19 25 23 26 24 25 26 21	32 35 28 35 29 25 25 29 34	38 34 35 29 42 50 34	35 51 35 19 42 30 32	27 29 24 25 26 31 12 26 24	36 38 29 34 23 13 37 31

SUMMARY.

Year	Ca	ses.	Dea	ths.	Tot	al.
	White.	Colored.	White.	Colored.	Cases.	Deaths.
1901-1905 1. 1906-1910 1. 1911-1915 1. 1911-1915 1. 1912-1913 1. 1914-1915 1.	537 538 545 561 504 535 507	549 617 582 547 482 517 275	354 314 299 327 305 309 260 296 494	438 434 386 397 420 361 351 402 371	1,086 1,155 1,127 1,108 986 1,052 1,001	79: 74: 68: 72: 72: 67: 61: 69: 64:

¹ Annual average for 5-year period.

Table 27.—Typhoid fever: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1901 to 1916, inclusive.

Year.	J	Deat	hs.	Dea	th ra 100,0	tes per 100.		Case	es.		se rate 100,000			centag hs to	
	w.	c.	Total.	w.	c.	Total.	w.	C.	Total.	w.	C.	Total.	w.	С.	Total
901-1905 1	99	64			68.0										
906-1910 ¹	73 33	46 26	59	12.9	48. 0 26. 4	16.7	343	137	480	134.4		135.0	11. 0 9. 6	19. 6 19. 0	
911	46 49	28 29	78	19.0	29. 0 29. 0	22.0	400	168 185	585	191. 9 157. 3	187.5	165.8	9. 4 12. 0	14.3 15.1	
013 014	35 17	22 28	45	7.0	22.0 29.0	13.0	230	115 109	33	135. 6 89. 8		96.1	9. 2 7. 4	18.3 24.5	13.
915	20 25	22 21	42 46		22.3 21.2		250 212	109 96	359 308	96. 5 81. 3			8.0 11.8	20. 2 21. 9	

Annual average for 5-year period.

Table 27a.—Typhoid fever: Reported cases and deaths, by race and by months, during the calendar year 1916.

Month.	Wł	ite.	Col	ored.	То	tal.
Month,	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January. February March, April, May une, Uuly, uuly, uugust Petober Ocorember Oceember.	9 11 12 10 12 9 16 47 39 26 13	13 3 4 1 2	1 4 5 4 12 34 17 11 2 2 2	1 3 2 4 5 3 2 1	13 11 13 14 17 13 28 81 56 37 15	
Total	212	25	96	21	308	4

¹ One death from paratyphoid.

 $^{\rm Table~27b.--} Typhoid$ fever: Cases and deaths, with percentage of deaths to cases at certain age periods, during the calendar year 1916.

		White,			Colored	l.		Total.	
Age.	Cases.	Deaths.	Percentage of death to cases.	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.
Under 1 year 110 4 years 110 4 years 110 9 years 100 to 19 years 20 to 20 years 30 to 39 years 40 to 49 years 30 to 59 years 30 to 59 years 50 to 59 years 70 years 70 years 70 years 70 years 70 years 70 years 70 years 70 years 70 years 70 years 70 years 70 years 70 years 70 years 70 years 70 years 70 years 71 years 71 years 70 years 71 years 7	18 56 64 34 14 13	6 7 16 3 3	1.0 10.7 10.9 17.6 21.4 23.1	5 10 38 22 16 4	1 2 8 7 3	20. 1 20. 0 21. 1 31. 8 18. 8	1 13 28 94 86 50 18 13 5	1 2 14 14 19 3 3	7. 7 7. 1 14. 9 16. 3 18. 0 16. 7 23. 1
Total		25	11.8	96	21	21.9	308	46	14. 9

 $^{^{1.0}\}mathrm{ne}$ death from paratyphoid. See Table 7—Deaths from typhoid fever arranged by statistical districts. See Table 7c—Deaths from typhoid fever on streets and in alleys.

TABLE 27c.—Typhoid fever, by statistical districts, for the calendar year 1916.

Districts.	Population.	Cases.	Deaths.	Districts.	Population.	Cases.	Deaths.
1	11, 209	7		29	1, 475	2	
2	5, 402	5	1	30	2,339	1	
3	6,698	18		31	4,319	1	
4	785	2		32	4, 648	- 2	
5	6,731	15	2	33	7, 532	9	
6	14, 109	19	3	0.4	1, 479	- 4	
7	6,368	1	0	34			
	12, 287	11		33	9, 125	35	
8	12,201		1	36	14,073	9	1
9	10,635	15	1	37	2, 283	1	
0	10, 919	17	2	38	3, 250	1	
1	1,362	6	2	39	1,428	5	
2	2, 131	1		40	1,597		
3	4,900			41	3,067	7	
4	14, 262	8	2	42	1,085		
5	9,663	31	5	43	5,094	7	
6	5, 339	5		44	6, 462	10	
7	14,502	5	1	45	1,586	10	
8	10,379	4	1			1	
9	3,557	1	1	46	2,856	1	
0	3,511	1		47	2,980	2	
1	908	2 2		48	5,227	4	
		2		49	1,172	3	
2	158			50	6,570	14	
3	536			51	1,220	1	
4	1,516	1		52	216		
5	3,314	5		53	799		
6	2,645	2					
7	2, 739	5	1	Total	357,749	308	
8	493		-		001,140	900	,

Note.—The above population is that given by the police department census for the year 1915. No census was taken in 1916.

Table 28.—Whooping cough: Deaths and death rates, cases and case rates, per 100,000 population, and percentages of deaths to cases, according to race, from 1896 to 1916, inclusive.

Year.	1	Deat	hs.			rates),000.	C	Cases	3.		e rate 00 por tion.			centag as to c	
	w.	c.	Total.	w.	c.	Total.	w.	c.	Total.	w.	c.	Total.	w.	c.	Total
1901 1905 1	27	50	77	12.0	53.0	25.0		-							
1906-1910 1	15	23	38	6.0	24.0		• • • • • • • • • • • • • • • • • • • •			• • • • • • •					
1911-19151	10	19	29	3 9	19.3		525	197	722	205.8	200.4	201.3	1.9	9.0	4.1
1911	15	13	28	6.0	13.0		462				141.6			9.4	
1912	20	44			45. 0										
1913	3	14	17	1.0	14.0									8.9	
1914	5	13	18	2.0	13.0		424				115.8			11.5	
915	9	10			10.		489				187.3			5.4	
1916	17	24			24.2							617.8		3.9	

1 Annual average for 5-year period.

Table 28a.—Whooping cough: Reported cases and deaths, by race and by months, during the calendar year 1916.

Month.	W	hite.	Colo	red.	То	tal.
month,	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January. February March. April. May. June June July August September October November	24 26 37 69 138 247 527 320 88 76 21	2 3 4 1 5 1	23 13 25 39 54 90 211 78 20 35 15	2 1 1 1 1 5 6 2 2 2 1	47 39 62 108 192 337 738 398 108 111 36 48	1
Total	1,612	17	612	24	2,224	-

Bronchitis.

Table 28b.—Whooping cough: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1916.

		White,			Colored			Total.	
Age.	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percentage of death to cases.	Cases.	Deaths.	Percentage of deaths to cases.
Under 1 year	144 800 554	13 4	9.0	104 301 185		13.5	248 1,101 769	27 14	10.9
10 to 19 years	55 10 11 3 3			16 3 2			71 13 13 3		
60 to 69 years 70 years and over				1			1 2		
Total	1,612	17	1.1	612	24	3.9	2,224	41	1.8

Note.-See table 7c-Deaths from whooping cough on streets and in alleys.

Population

Table 29.—Population and deaths, by race, in the District of Columbia from pneumonia, bronchitis, and congestion of the lungs, and from said diseases taken together, and showing also the death rate per 100,000 of each of such classes of deaths.

Pneumonia.

Calendar year.	Popu	lation.	Wi	ite.	Cole	ored.	W	iite.	Colo	red.
	White.	Colored	Deaths.	Death rate per 100,000.	Deaths.	Death rate per 100,000.	Deaths.	Death rate per 100,000.	Deaths.	Death rate per 100,000.
1901-1905 1 1906-1910 1 1911-1915 1 1911 1 1912 1 1912 1 1913 1 1914 1 1915 1 1916 1	240, 244 255, 360 251, 409 254, 260 255, 153 256, 049	93, 719 96, 696 98, 453 98, 159 98, 676 98, 144 97, 615 98, 809 99, 143	219 246 262 278 251 207 242 333 305	101 102 103 110 99 81 95 129 117	288 304 285 310 274 277 226 338 299	307 314 289 316 278 282 232 342 302	55 61 51 49 50 58 46 52 39	25 25 20 19 20 23 18 20 15	80 67 42 38 45 41 50 35 38	85 69 43 39 46 42 51 36 38
	Popu	lation.	C	ongestio	n of lung	gs.	Pneum	onia, brogestion	onchitis, of lungs.	and con-
Calendar year.			Wi	nite.	Cole	ored.	Wi	nite.	Cole	ored.
	White.	Colored	Deaths.	Death rate per 100,000.	Deaths	Death rate per 100,000.		Death rate per 100,000.	Deaths.	Death rate per 100,000.
1901-1905 1 1906-1910 1 1911-1915 1 1911-1915 1 1912 1913 1914 1914 1915 1916	240, 244 255, 360 251, 409 254, 260 255, 153 256, 049	93, 719 96, 696 98, 453 98, 159 98, 676 98, 144 97, 615 98, 809 99, 143	33 27 13 19 22 9 9 5 5	15 11 5 8 9 4 4 2 2	25 13 7 11 9 12 3 3	27 13 7 11 9 12 3 3	307 334 326 346 323 274 297 390 349	141 139 128 137 127 107 116 151 134	393 384 334 359 328 330 279 376 341	419 397 339 366 332 336 286 381 244

¹ Annual average for 5-year period.

Table 30.—Showing births (stillbirths excluded) reported in the District of Columbia, by race and sex and by months, during the calendar year 1916.

Months.		W	hite.	Col	ored.	Tv	vins.		giti- tes.	1	ended by icians.	Atto ed mi wiv	id-
MODULES.	Total.	Males.	Females.	Males.	Females.	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.
January February March April May June July August September October November	654 608 642 536 548 596 588 703 609 583 593	241 225 235 186 180 218 205 266 210 217 199 201	195 173 232 196 183 198 207 237 225 201 210 202	120 105 81 77 93 75 91 104 81 81 88	98 105 94 77 92 105 85 96 93 84 96 83	4 6 14 6 8 12 4 10 2 12 2 4	6 2 4 6 2 8 6 4 2 6	11 8 6 4 8 9 4 8 6 3 8 6	40 54 25 35 36 36 25 40 22 24 29 37	405 372 442 358 337 392 384 478 407 396 389 374	199 185 145 139 166 159 155 172 151 148 168 179	31 26 25 24 26 24 28 25 28 22 20 29	19 25 30 15 19 21 21 28 23 17 16
Total, sex and color		2, 583	2, 459	1,108	1,108								
Total by race		5,	042	2,	216	84	46	81	403	4, 734	1,966	308	250
Total for year	7, 258		7,	258		1	.30	4	84	6,	700	5.	58

Table 31.—Reported births (still births excluded) in institutions in the District of Columbia, by race and sex and place of birth, during the calendar year 1916.

Hospitals.	W	hite.	Colo	red.		Total.	
	Male.	Female.	Male.	Female.	White.	Colored.	All.
Blue Plains.		1		1	1	1	
Casualty	12	9	17	5	21	22	
columbia.	163	177	131	122	340	253	5
mergency	16	18			34		
lorcence Crittenton	9	8			17		
reedmen's	1		141	144	1	285	2
ry's	1	1			2		
ariield	66	82	35	50	148	85	2
eorgetown	131	134	16	14	265	30	2
eorge Washington	117	100			217		:
lomeopathic	35	34	57	49	69	106	1
rovidence	117	103			220		:
bley	245	239	1		484		4
t. Ann's	15	7			22		
Valter Reed	3	2			5		
Vashington Asylum	5	1	30	25	6	55	
Vashington Sanitarium	i				1		
	937	916	427	410	1,853	837	2,6

Table 32.—Births (stillbirths excluded) reported in the District of Columbia, arranged by race, and by legitimacy and illegitimacy, and number of multiple births for the years mentioned.

	L	egitimat	e.	Ille	egitim	ate.		Total.		1	Twin	ıs.	Т	riple	ts.
Calendar years.	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	All.	White.	Colored.	Total.	White.	Colored.	Total.
1896-1900 ' 1901-1905 ¹ 1906-1910 ¹ 1911-1915 ¹ 1916	2,712 3,335 4,533 4,690 4,961	1,380 1,499 1,786 1,769 1,813	4, 092 4, 834 6, 319 6, 459 6, 774	86 95 99 104 81	491 481 482 464 403	577 576 581 568 484	2,798 3,430 4,632 4,794 5,042	1,871 1,980 2,268 2,234 2,216	4,669 5,409 6,900 7,028 7,258	71 72 84 78 83	42 52 46 52 45	113 124 130 130 128	1 1 1 1	2 1 1	1 3 2 2

¹Annual average for 5-year period.

Table 33.—Stillbirths reported in the District of Columbia during the calendar year 1916, by race and sex, and certain data relative thereto.

		White	э.		Colore	i.	Unk	nown	race.	
	Male.	Female.	Sex unknown.	Male.	Female.	Sex unknown.	Male.	Female.	Sex unknown.	Total.
Legitimacy: legitimate Illegitimate	100	62 5		69 41	60 22		2	2		291 75
Unknown	1						11	15	24	51
Total	104	67		110	82		13	17	24	417
Period uterogestation: 4 months and under. 5 months. 6 months. 8 months. 9 months. 10 months.	7 4 15 12 19 17 30	7 5 5 14 9 10		1 7 17 18 23 27 17	1 2 13 20 14 23 9		1 2 3 5	4 4 2 1 3 3	23	48 22 58 67 72 88 73
Total	104	67		110	82		13	17	24	417
Reported by physicians	99 5	64		93 17	73 9		2 11	2 15	24	333 84
Total.	104	67		110	82		13	17	24	417
Causes: Maternal illness. Maternal injury Prematurity Prodisped funis Pracenta previa Uracenta previa Malpresentation. Malpresentation. Malpresentation. Mallormation. Difficult labor. Casarian section Strangulated funis Strangulated funis Asphyxia La cutal separation, premature. Discontinuous depending premature. La contail degeneration Dydamnios Syphilis. La cutal separation premature. Lydamnios Syphilis. Lydinamios Syphilis. Lydinamios Coverwork of mother Uraknown cause. Total		6 1 4 1 3 3 		2 3 1 4 2 1 1 2 1 2 1 2 1 7 6	3 1 2 1 3 3 1 2 7 1 3 58		13	16	24	18 10 8 14 8 8 11 13 4 11 1 1 6 10 9 3 3 1 1 1 2 2 4 4 2 7 4



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